

LBT-DR4/DR5/DR6/DR440/ W300/W5000/XB500

SERVICE MANUAL

US Model

LBT-W300/W5000

Canadian Model

LBT-W300

AEP Model

UK Model

LBT-XB500

E Model

LBT-DR4/DR5/DR6/DR440

Australian Model

LBT-DR4

- LBT-DR4/DR5/DR6/DR440/W300/W5000/XB500 is composed following models.

As for the service manual, it is issued for each component model, then, please refer to it.

COMPONENT MODEL NAME FOR LBT-DR4/DR5/DR6/DR440/W300/W5000/ XB500

	LBT-DR4	LBT-DR5	LBT-DR6	LBT-DR440	LBT-W300	LBT-W5000	LBT-XB500
COMPACT DISC DECK RECEIVER SYSTEM	HCD-DR4	HCD-DR5	HCD-DR6	HCD-DR440	HCD-W300	HCD-W5000	HCD-XB500
SPEAKER SYSTEM	SS-DR4	SS-DR5	SS-DR6	—	—	—	SS-XB500

SPECIFICATIONS

General

Power requirements

North American model:	120 V AC, 60 Hz
European model:	230 V AC, 50 / 60 Hz
Mexican model:	120 V AC, 50 / 60 Hz
Australian models:	230 - 240 V AC, 50 / 60 Hz
Other models:	120 V, 220V, or 230 - 240 V AC, 50 / 60 Hz Adjustable with voltage selector

Power consumption

(LBT-DR6)	220 watts
(LBT-DR5)	200 watts
(LBT-DR440/DR4)	170 watts
(LBT-W5000/W300)	
U.S.A. model:	300 watts
Canadian model:	300 VA
(LBT-XB500)	180 watts

Supplied accessories

AM loop antenna (1)
Remote RM-SR5 (1)
R6 (size AA) batteries (2)
FM wire antenna (1)
Speaker cords (2)

Design and specifications are subject to change without notice.

COMPACT Hi-Fi STEREO SYSTEM



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PARTS LIST

Ref. No.	Part No.	Description	Remark	• Abbreviation
		ACCESSORIES & PACKING MATERIALS *****		CND : Canadian model EA : Saudi Araboa model SP : Singapore model MY : Malaysia model
				MX : Mexican model AR : Argemtome model TH : Thai model
	1-475-572-41	COMMANDER, STANDARD (RM-SR5B)		
	1-501-374-11	ANTENNA, LOOP		
	1-501-659-41	ANTENNA (FM) (EXCEPT AEP, UK)		
	1-501-804-11	ANTENNA (FM) (AEP, UK)		
	1-775-512-21	CORD, SPEAKER		
	3-865-548-11	MANUAL, INSTRUCTION (ENGLISH)		
	3-865-548-21	MANUAL, INSTRUCTION (FRENCH) (CND, EA)		
	3-865-548-31	MANUAL, INSTRUCTION (SPANISH) (AR,MX)		
	3-865-548-41	MANUAL, INSTRUCTION (FRENCH, SPANISH) (E,SP, MY)		
	3-865-548-51	MANUAL, INSTRUCTION (CHINESE) (SP, MY)		
	3-865-548-61	MANUAL, INSTRUCTION (ARABIC) (EA)		
	3-865-548-71	MANUAL, INSTRUCTION (GERMAN) (AEP)		
	3-865-548-81	MANUAL, INSTRUCTION (DUTCH, ITALIAN, PORTUGUESE, SWEDISH) (AEP)		
	3-865-548-91	MANUAL, INSTRUCTION (POLISH,RUSSIAN) (AEP)		
	3-865-549-11	MANUAL, INSTRUCTION (CZECH) (AEP)		
	3-865-549-21	MANUAL, INSTRUCTION (HUNGARIAN) (AEP)		
	3-865-549-31	MANUAL, INSTRUCTION (TURKISH) (AEP)		
	3-865-549-41	MANUAL, INSTRUCTION (GREEK) (AEP)		
	3-865-550-31	MANUAL, INSTRUCTION (GREEK/THAI) (TH)		
	3-866-372-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH,GERMAN, SPANISH, DUTCH, SWEDISH, ITALIAN, PORTUGUESE, POLISH,RUSSIAN, DANISH, FINNISH, HUNGARIAN, CZECH, GREEK, TURKISH) (SS-XB500)		
	4-210-254-01	CUSHION (FOOT)		
	4-998-173-01	COVER, BATTERY (FOR RM-SR5B)		

HCD-DR4/DR5/DR6/DR440/ W300/W5000/XB500

SERVICE MANUAL



Photo: HCD-DR6

HCD-DR4/DR5/DR6/DR440/W300/W5000/XB500 is the tuner, deck, CD and amplifier section in LBT-DR4/DR5/DR6/DR440/W300/W5000/XB500.

US Model

HCD-W300/W5000

Canadian Model

HCD-W300

AEP Model

UK Model

HCD-XB500

E Model

HCD-DR4/DR5/DR6/DR440

Australian Model

HCD-DR4

This stereo system is equipped with the Dolby* B-type noise reduction system.
* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of the Dolby Laboratories Licensing Corporation.

CD SECTION	Model Name Using Similar Mechanism	HCD-D290/G3300/XB3
	CD Mechanism Type	CDM37M-5BD32L
	Base Unit Type	BU-5BD32L
	Optical Pick-up Type	KSS-213D/Q-N
TAPE DECK SECTION	Model Name Using Similar Mechanism	NEW
	Tape Transport Mechanism Type	TCM-230AWR2/230PWR2

SPECIFICATIONS

Amplifier section

(HCD-W5000/W300)

Continuous RMS power output
120 + 120 watts
(8 ohms at 1 kHz, 10% THD)
Total harmonics distortion
Less than 0.07%
(8 ohms at 1 kHz, 50 W)

(HCD-XB500)

DIN power output (Rated)
90 + 90 watts
(8 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
120 + 120 watts
(8 ohms at 1 kHz, 10% THD)
Music power output (Reference)
200 + 200 watts
(8 ohms at 1 kHz, 10% THD)

(HCD-DR440/DR4)

The following measured at AC 120/220/240 V, 50 Hz
DIN power output (Rated)
140 + 140 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
170 + 170 watts
(6 ohms at 1 kHz, 10% THD)

(HCD-DR5)

The following measured at AC 120/220/240 V, 50 Hz
DIN power output (Rated)
160 + 160 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
200 + 200 watts
(6 ohms at 1 kHz, 10% THD)

(HCD-DR6)

The following measured at AC 120/220/240 V, 50 Hz
DIN power output (Rated)
180 + 180 watts
(6 ohms at 1 kHz, DIN)
Continuous RMS power output (Reference)
250 + 250 watts
(6 ohms at 1 kHz, 10% THD)

Inputs

PHONO IN (phono jacks): sensitivity 3 mV, impedance 47 kilohms
MIX MIC (phone jack): sensitivity 1 mV, impedance 10 kilohms
VIDEO1 IN (phono jacks): sensitivity 250 mV, impedance 47 kilohms
VIDEO2 IN (phono jacks): sensitivity 250 mV, impedance 47 kilohms
MD IN (phono jacks): sensitivity 450 mV, impedance 47 kilohms

Outputs

PHONES (stereo phone jack): accepts headphones of 8 ohms or more
VIDEO OUT (phono jack): voltage 250 mV, impedance 1 kilohm
MD OUT (phono jacks): voltage 250 mV, impedance 1 kilohm
FRONT SPEAKER:
(HCD-W5000/W300/XB500) accepts impedance of 8 to 16 ohms
(HCD-DR6/DR5/DR440/DR4) accepts impedance of 6 to 16 ohms
SURROUND SPEAKER (HCD-W300 only): accepts impedance of 16 ohms

— Continued on next page —

COMPACT DISC DECK RECEIVER



SONY®

CD player section

System	Compact disc and digital audio system
Laser	Semiconductor laser ($\lambda = 780 \text{ nm}$)
Laser output	Emission duration: continuous Max. $44.6 \mu\text{W}^*$ * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block with 7 mm aperture.
Wavelength	780 – 790 nm
Frequency response	2 Hz – 20 kHz ($\pm 0.5 \text{ dB}$)
Signal-to-noise ratio	More than 90 dB
Dynamic range	More than 90 dB
CD DIGITAL OUT (square optical connector jack, rear panel)	
Wave length:	660 nm
Output level:	-18 dBm

Tape player section

Recording system	4-track 2-channel stereo
Frequency response (DOLBY NR OFF)	40 – 13,000 Hz ($\pm 3 \text{ dB}$), using a Sony TYPE I cassette
	40 – 14,000 Hz ($\pm 3 \text{ dB}$), using a Sony TYPE II cassette
Wow and flutter	$\pm 0.15\%$ W. Peak (IEC) 0.1% W. RMS (NAB) $\pm 0.2\%$ W. Peak (DIN)

Tuner section

FM stereo, FM/AM superheterodyne tuner

FM tuner section

Tuning range (2 band model)	
North American model:	87.5 – 108.0 MHz (100 kHz step)
Other models:	87.5 – 108.0 MHz (50 kHz step)
(3 band model)	
FM:	87.5 – 108.0 MHz (50 kHz step)
UKV:	65.0 – 74.0 MHz (10 kHz step) STEREO PLUS
Antenna	FM wire antenna
Antenna terminals	75 ohm unbalanced
Intermediate frequency	10.7 MHz

AM tuner section

Tuning range	
North American model:	530 – 1,710 kHz (with the tuning interval set at 10 kHz)
	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Middle Eastern models:	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
Other models:	531 – 1,602 kHz (with the tuning interval set at 9 kHz)
	530 – 1,710 kHz (with the tuning interval set at 10 kHz)
Antenna	AM loop antenna, External antenna terminals
Intermediate frequency	450 kHz

General

Power requirements	
North American model:	120 V AC , 60 Hz
European model:	230 V AC, 50/60 Hz
Mexican model:	120 V AC , 50/60 Hz
Australian model:	230 – 240 V AC, 50/60 Hz
Other models:	120 V, 220 V, or 230 – 240 V AC, 50/60 Hz Adjustable with voltage selector

Power consumption	
(HCD-DR6)	220 watts
(HCD-DR5)	200 watts
(HCD-DR440/DR4)	170 watts
(HCD-W5000/W300)	
U.S.A. model:	200 watts
Canadian model :	200 VA
(HCD-XB500)	180 watts

Dimensions (w/h/d)	Approx. $356 \times 423 \times 446$ mm ($14^1/8 \times 16^3/4 \times 17^5/8$ in) incl. projecting parts and controls
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Mass	
(HCD-DR6)	Approx. 15.0 kg (33 lb 2 oz.)
(HCD-DR5)	Approx. 14.0 kg (30 lb 14 oz.)
(HCD-DR440/DR4/ W5000/W300/XB500)	Approx. 13.5 kg (29 lb 13 oz.)

Design and specifications are subject to change without notice.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

Flexible Circuit Board Repairing

- Keep the temperature of soldering iron around 270°C during repairing.
- Do not touch the soldering iron on the same conductor of the circuit board (within 3 times).
- Be careful not to apply force on the conductor when soldering or unsoldering.

Laser component in this product is capable of emitting radiation exceeding the limit for Class 1.

CLASS 1 LASER PRODUCT
LUOKAN 1 LASERLAITE
KLASS 1 LASERAPPARAT

This appliance is classified as a CLASS 1 LASER product. The CLASS 1 LASER PRODUCT MARKING is located on the rear exterior.

CAUTION : INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS, DEFEATED, AVOID EXPOSURE TO BEAM.
ADVARSEL : USYNLIG LASERSTRÅLING VED ÅBNING NÅR SIKKERHEDSAFBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSÆTTELSE FOR STRÅLING.
VORSICHT : UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET UND SICHERHEITSVERRIEGELUNG ÜBERBRÜCKT, NICHT DEM STRAHL AUSSETZEN.
VARO! : AVATTAESSA JA SUOJALUKITUS OHITETTAESSA OLET ALT-TIINA NÄKYMÄTTÖMÄLLÄ LASERSÄTEILYLLÄ. ÄLÄ KATSO SÄTEESEEN.
VARNING : OSYNLIG LASERSTRÅLING NÄR DENNA DEL ÄR ÖPPNAD OCH SPÄRREN ÄR URKOPPLAD. BETRÄKTA EJ STRÅLEN.
ADVERSEL : USYNLIG LASERSTRÅLING NÅR DEKSEL ÅPNES OG SIKKERHEDSLÅS BRYTES. UNNGÅ EKSPONERING FOR STRÅLEN.
VIGYAZAT! : A BŰRKOLAT NYITÁSÁKOR LÁTHATATLAN LÉZERSUGÁRVESZÉLY! KERÜLJE A BESUGÁRZÁST!

This caution label is located inside the unit.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer: Check the antenna terminals, metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE

The AC leakage from any exposed metal part to earth Ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

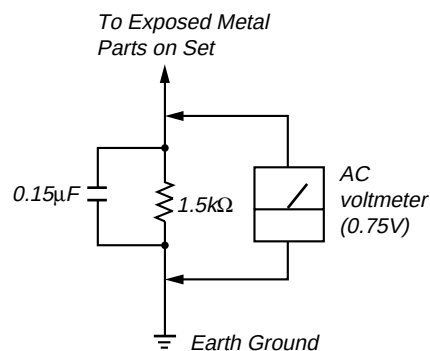


Fig. A. Using an AC voltmeter to check AC leakage.

SAFETY-RELATED COMPONENT WARNING !!

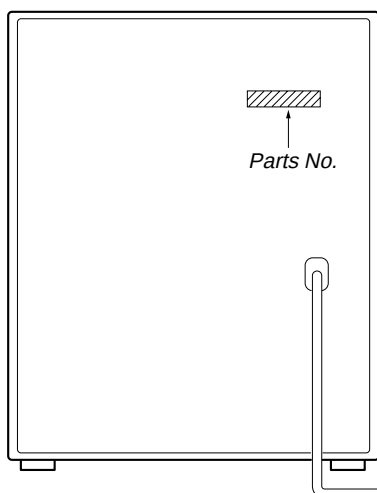
COMPONENTS IDENTIFIED BY MARK $\triangle$ OR DOTTED LINE WITH MARK $\triangle$ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE $\triangle$ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

MODEL IDENTIFICATION

— BACK PANEL —



MODEL	PRODUCT COUNTRY	PARTS No.
DR4: E, AR model	INDONESIA PRODUCT	4-214-786-0□
DR4: TH model	THAI PRODUCT	4-214-786-9□
DR4: SP model	INDONESIA PRODUCT	4-214-786-1□
DR4: MX model	INDONESIA PRODUCT	4-214-786-2□
DR4: AUS model	INDONESIA PRODUCT	4-214-786-3□
DR4: EA model	INDONESIA PRODUCT	4-214-786-4□
DR5: E, AR model	INDONESIA PRODUCT	4-214-786-5□
DR5: SP model	INDONESIA PRODUCT	4-214-786-6□
DR5: MX model	INDONESIA PRODUCT	4-214-786-7□
DR440: MX model	INDONESIA PRODUCT	4-214-786-8□
W300: US model	INDONESIA PRODUCT	4-214-787-4□
W300: CND model	INDONESIA PRODUCT	4-214-787-5□
W5000: US model	INDONESIA PRODUCT	4-214-787-6□
DR6: E, AR model	INDONESIA PRODUCT	4-214-788-3□
DR6: MX model	INDONESIA PRODUCT	4-214-788-5□
XB500: AEP, UK model	INDONESIA PRODUCT	4-214-785-0□
XB500: AEP model	THAI PRODUCT	4-214-785-2□

- Abbreviation
 - CND : Canadian model
 - TH : Thailand model
 - SP : Singapore model
 - MX : Mexican model
 - AUS : Australian model
 - EA : Saudi Arabia model
 - AR : Argentine model

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body. During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

Carry out the “S curve check” in “CD section adjustment” and check that the S curve waveform is output four times.

SECTION 1 SERVICING NOTE

About CD-TEXT display

This unit is provided with a simple CD-TEXT display function. The CD-TEXT contents of 20 tracks are displayed on the fluorescent display tube.

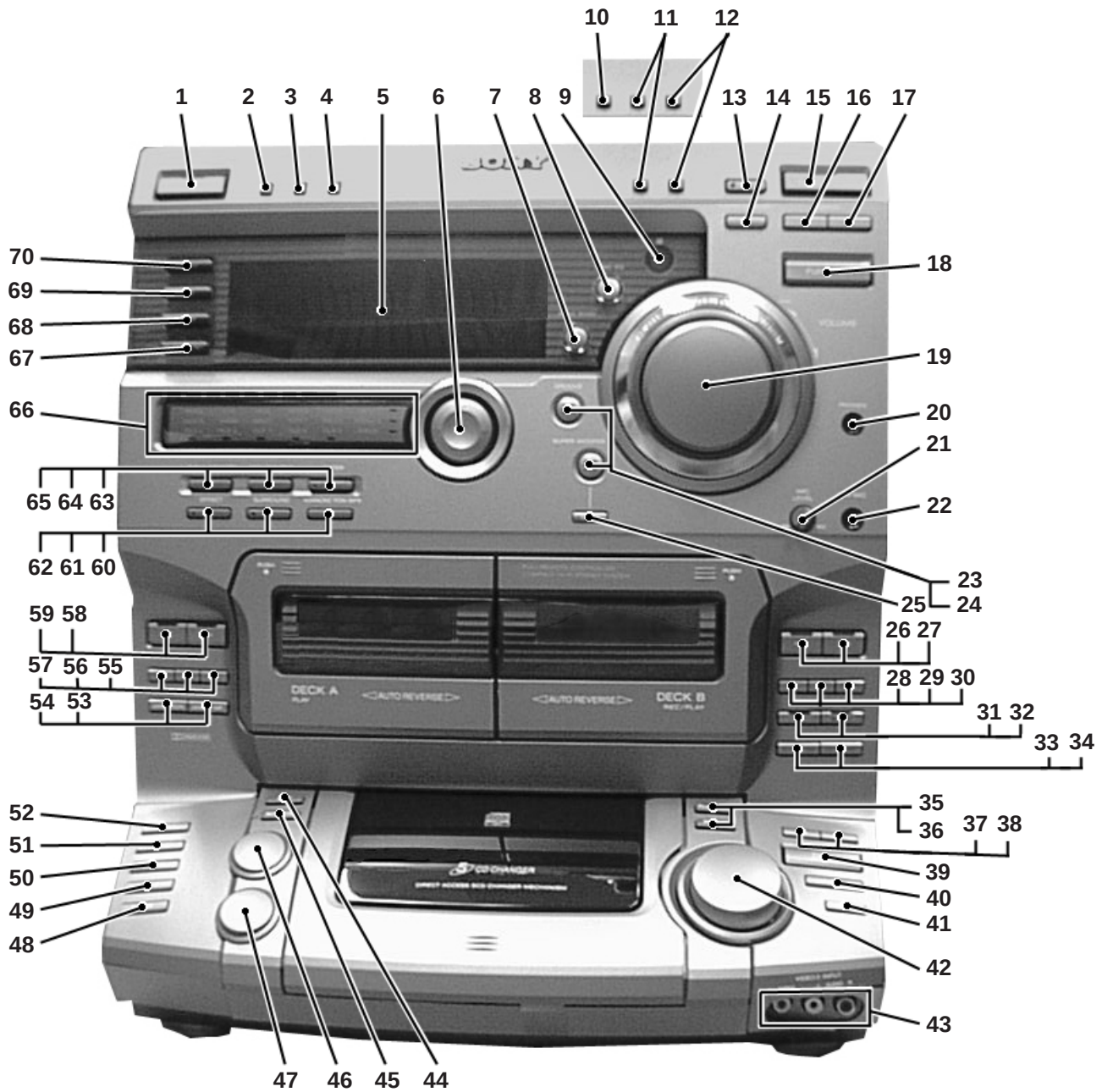
Since the function is simple, some special characters may not be displayed, or may be displayed as other characters.

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SECTION 2 GENERAL

Front Panel



LOCATION OF PARTS AND CONTROLS

- | | | |
|--|--------------------------------------|----------------------------------|
| 1 I/⏻ (Power) button and indicator | 24 SUPER WOOFER button and indicator | 50 DISC 3 button |
| 2 DEMO (STANDBY) button
(DR4/DR5/DR6/DR440)
POWER SAVE/DEMO (STANDBY)
button (W300/W5000/XB500) | 25 MODE button | 51 DISC 2 button |
| 3 DISPLAY button | 26 ◁ (B Deck) button and indicator | 52 DISC 1 button |
| 4 SPECTRUM ANALYZER button | 27 ▷ (B Deck) button and indicator | 53 DOLBY NR button |
| 5 Display window | 28 ■ (B Deck) button | 54 DIRECTION button |
| 6 GEQ control button | 29 ◀◀ (B Deck) button | 55 ▶▶ (A Deck) button |
| 7 SYNC BASS button | 30 ▶▶ (B Deck) button | 56 ◀◀ (A Deck) button |
| 8 SYNC EQ button | 31 (B Deck) button | 57 ■ (A Deck) button |
| 9 Remote sensor | 32 ● REC (B Deck) button | 58 ▷ (A Deck) button |
| 10 PTY button (XB500) | 33 HI-SPEED DUB button | 59 ◁ (A Deck) button |
| 11 TUNING MODE button | 34 CD SYNCHRO button | 60 KARAOKE PON/MPX button |
| 12 STEREO/MONO button | 35 PLAY MODE button | 61 SURROUND button and indicator |
| 13 ENTER/NEXT button and indicator | 36 REPEAT button | 62 EFFECT button and indicator |
| 14 TUNER MEMORY button | 37 ◀◀ (CD) button | 63 ENTER button and indicator |
| 15 TUNER/BAND button | 38 ▶▶ (CD) button | 64 GEQ CONTROL button |
| 16 TUNING - button | 39 ▷ (CD) button and indicator | 65 P. FILE MEMORY |
| 17 TUNING + button | 40 ■ (CD) button | 66 Equalizer indicators |
| 18 FUNCTION button | 41 DISK SKIP button | 67 ⌚/CLOCK SET button |
| 19 VOLUME knob | 42 ◀◀ AMS ▶▶ knob | 68 SLEEP button |
| 20 PHONES jack | 43 VIDEO2 INPUT jacks | 69 REC button and indicator |
| 21 MIC LEVEL knob | 44 EDIT button | 70 DAILY button and indicator |
| 22 MIX MIC jack | 45 NON-STOP button and indicator | |
| 23 GROOVE button and indicator | 46 LOOP button | |
| | 47 FLASH button | |
| | 48 DISC 5 button | |
| | 49 DISC 4 button | |

• AMS is the abbreviation for Automatic Music Sensor.

Step 3: Setting the time (continued)

Tip

If you make a mistake, start over from step 1.

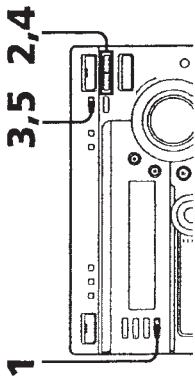
Notes

- You cannot set the time in Power Saving mode (see page 10).
- The clock setting is canceled when you disconnect the power cord or if a power failure occurs.

Step 3: Setting the time

You must set the time before using the timer functions. The clock is on a 24-hour system for the European and Brazilian models, and a 12-hour system for other models.

The 24-hour system model is used for illustration purposes.



1 Press ⌚/CLOCK SET.

The hour indication flashes.



2 Press TUNING +/- to set the hour.



3 Press ENTER/NEXT.

The minutes indication flashes.



4 Press TUNING +/- to set the minutes.



5 Press ENTER/NEXT.

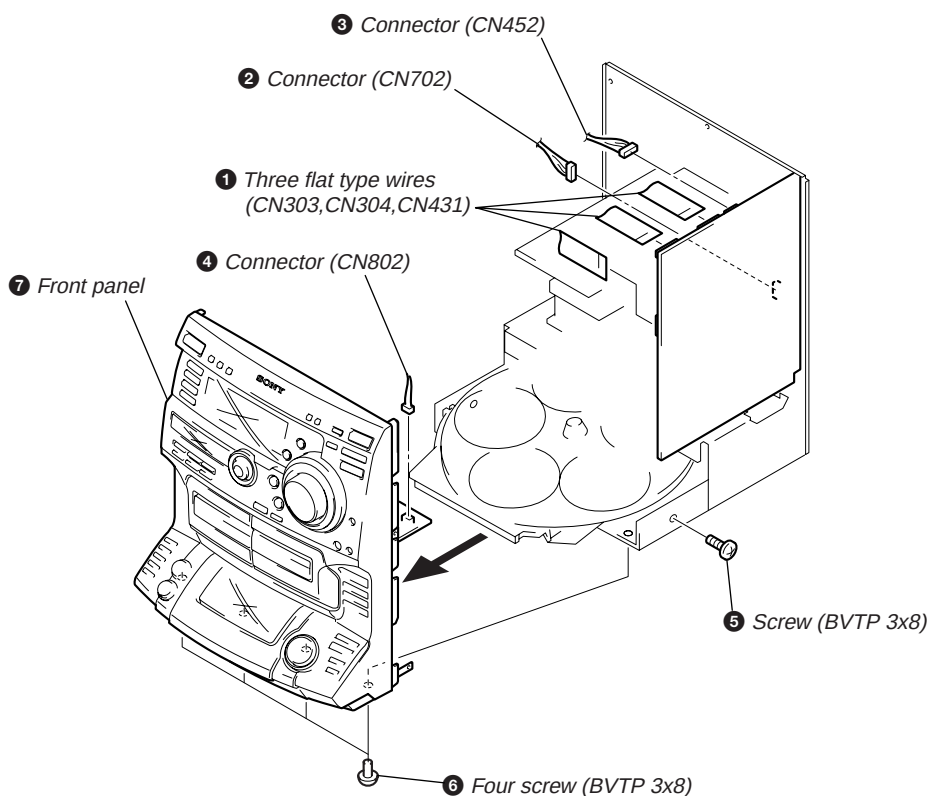
The clock starts.

This section is extracted from instruction manual.

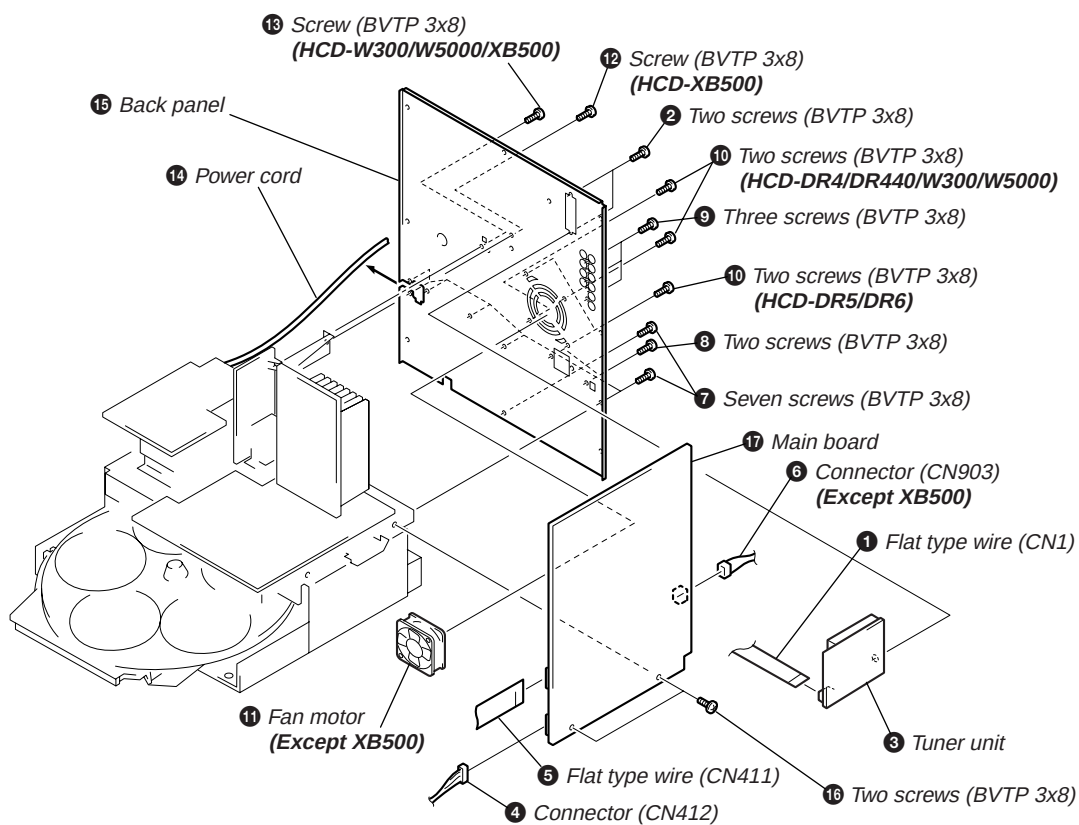
SECTION 3 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

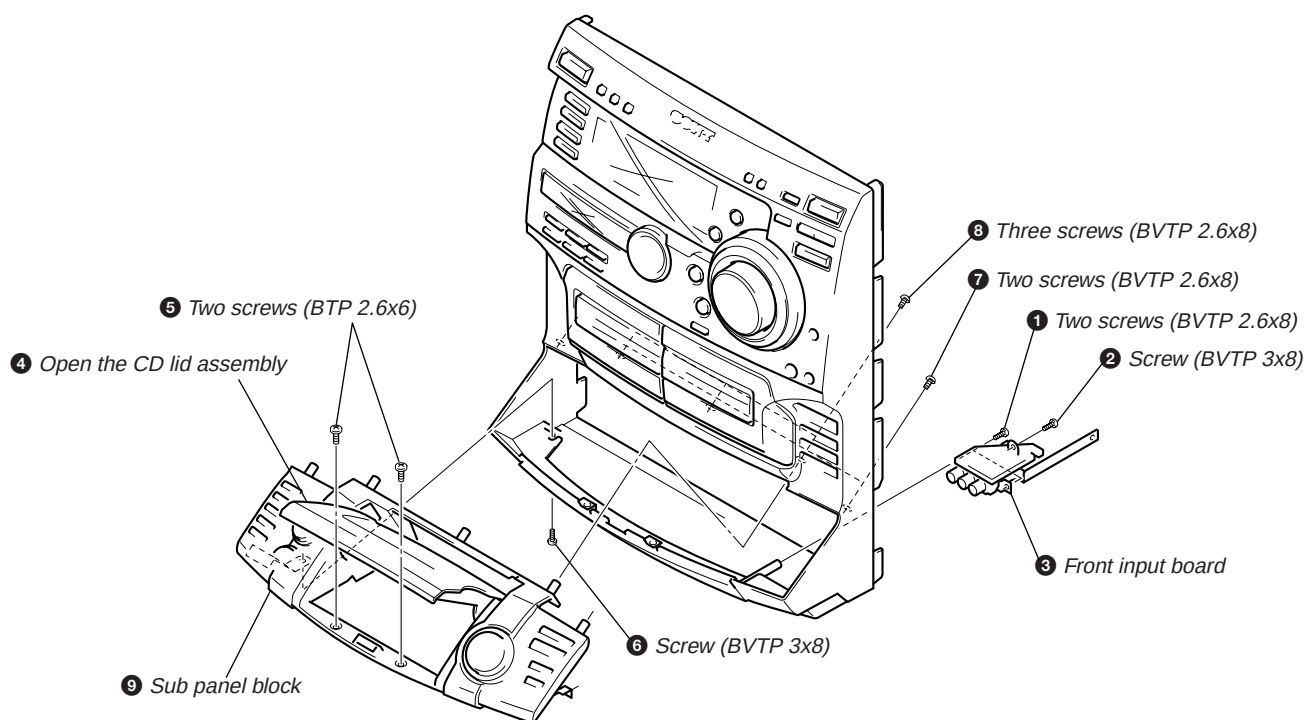
3-1. FRONT PANEL



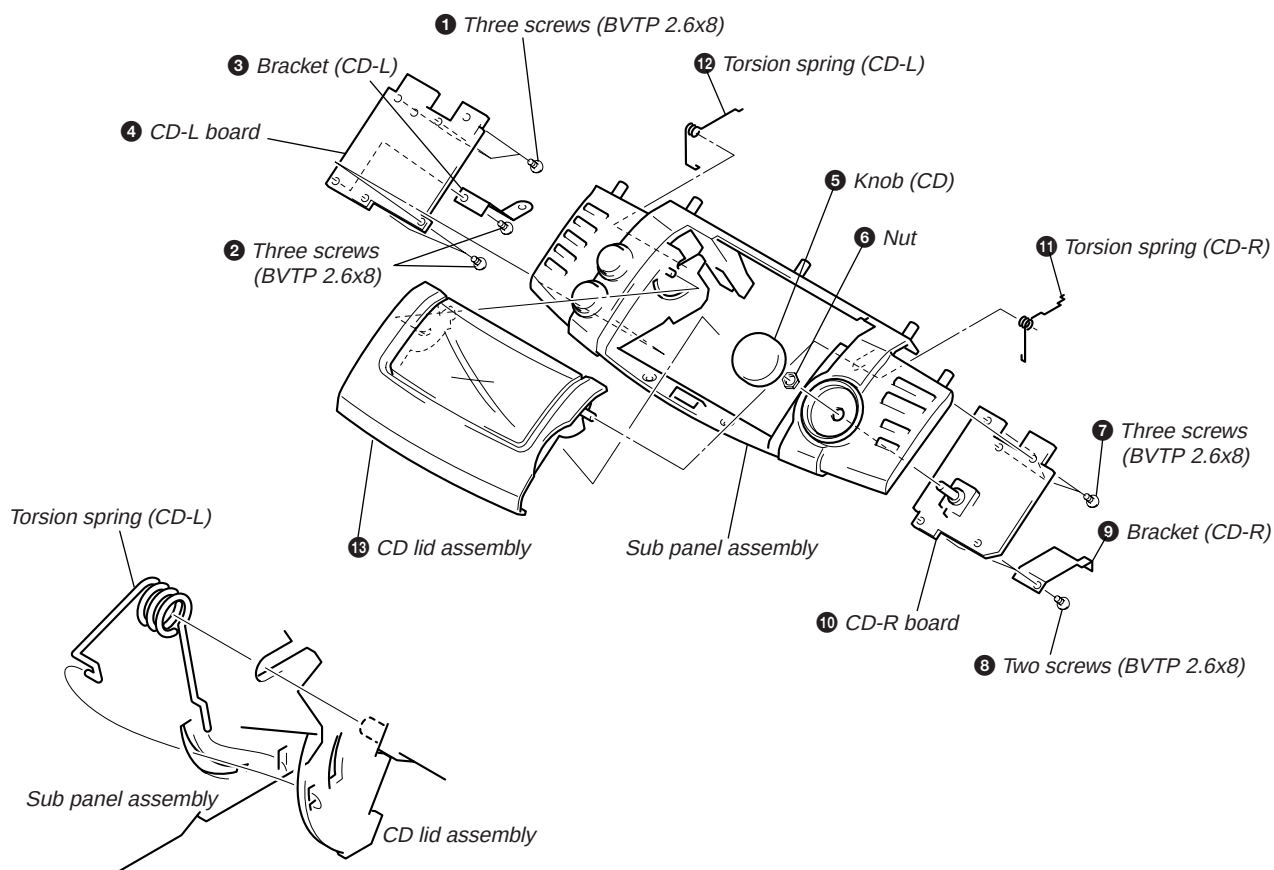
3-2. MAIN BOARD



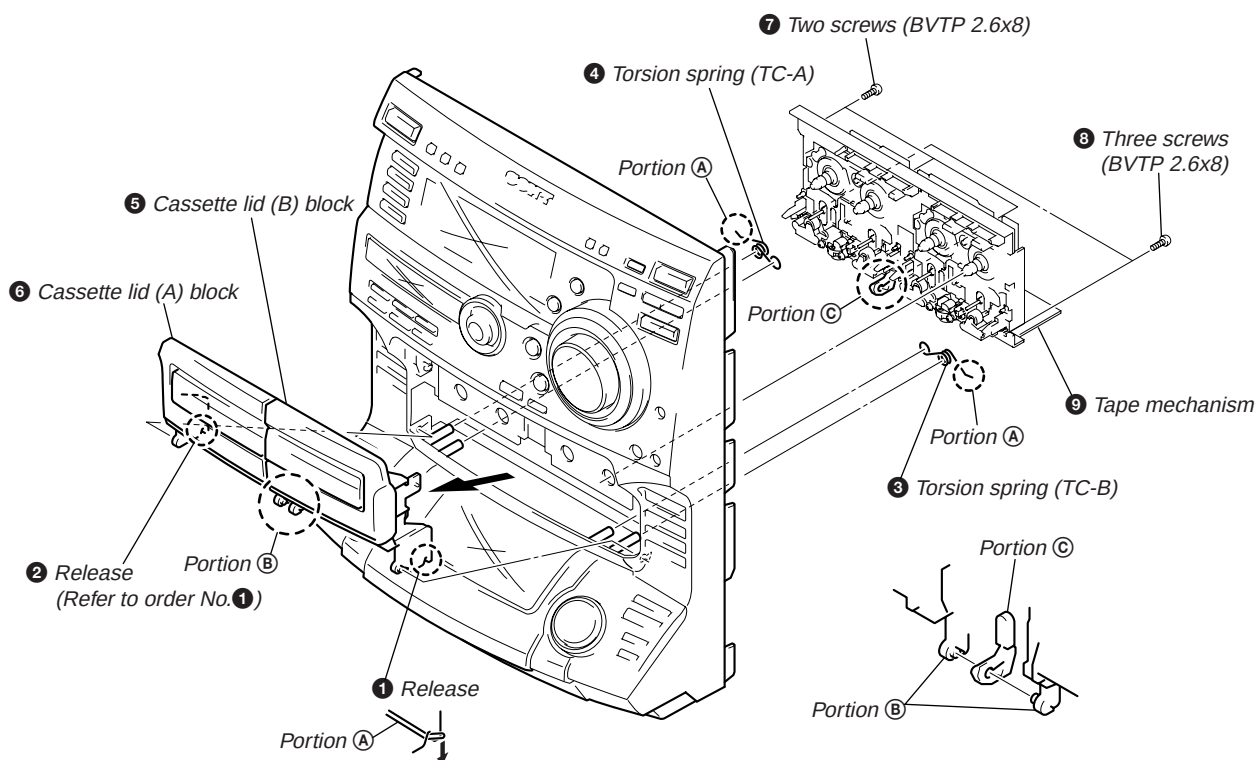
3-3. SUB PANEL



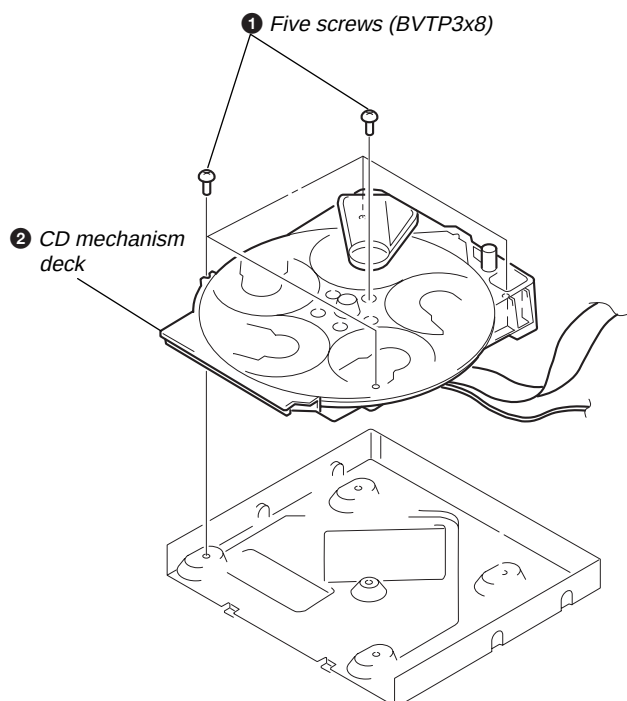
3-4. CD-L/CD-R BOARD AND CD LID ASSEMBLY



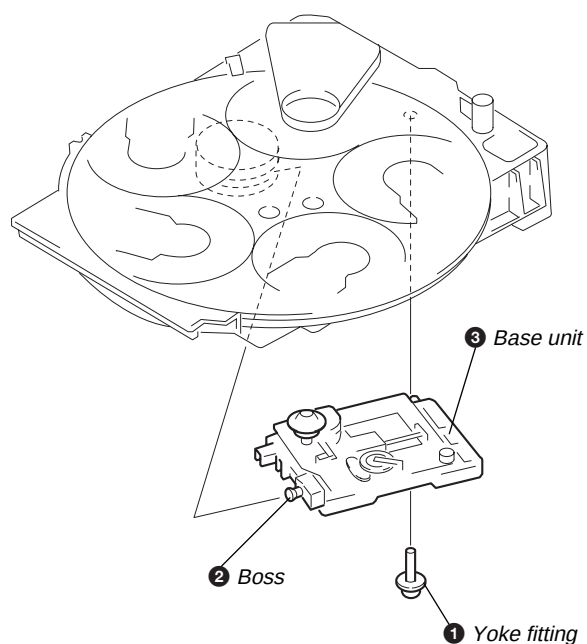
3-5. TAPE MECHANISM DECK AND CASSETTE LID



3-6. CD MECHANISM DECK



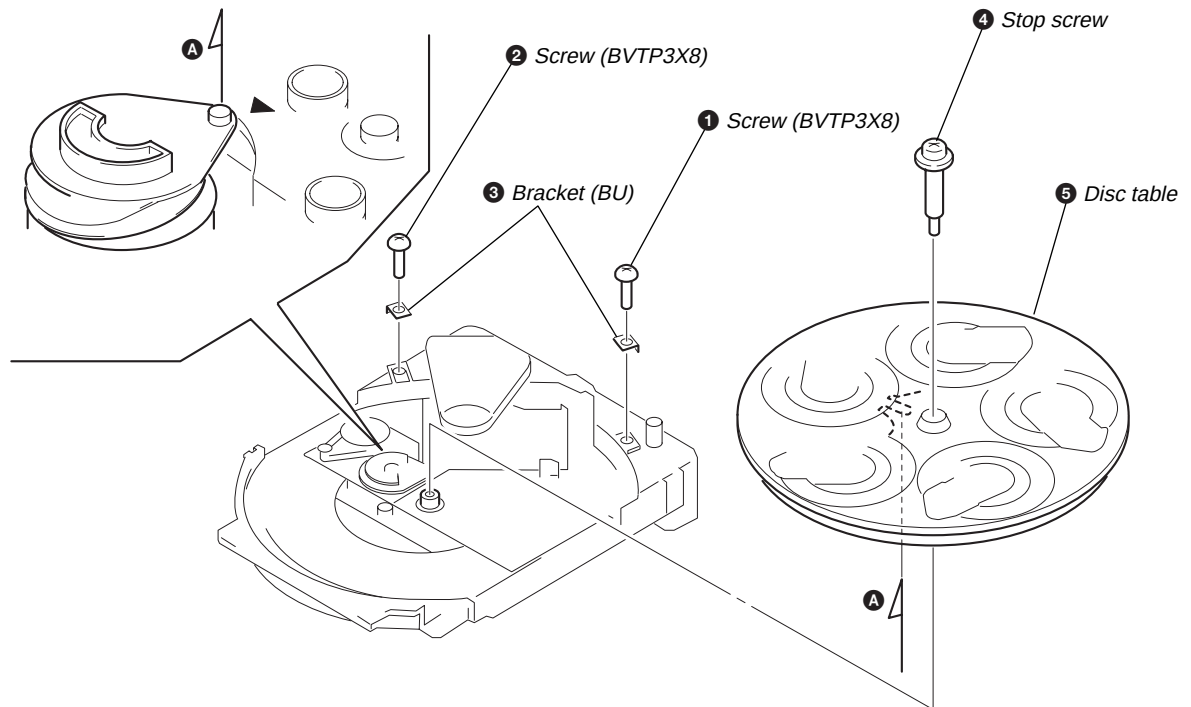
3-7. BASE UNIT



3-8. DISC TABLE

Note:

When the disc table is installed, adjust the positions of roller cam and mark ► as shown in the figure, then set to the groove of disc table.



SECTION 4

SERVICE MODE

MC Cold Reset

- The cold reset clears all data including preset data stored in the RAM to initial conditions. Execute this mode when returning the set to the customer.

Procedure:

1. Press three buttons [⏻/CLOCK SET], [ENTER], and [I/⏻] simultaneously.
2. "COLD RESET" is displayed on the fluorescent display tube and reset is executed.

CD Delivery Mode

- This mode moves the pick-up to the position durable to vibration. Use this mode when returning the set to the customer after repair.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Press [LOOP] button and [I/⏻] button simultaneously.
3. A message "LOCK" is displayed on the fluorescent indicator tube, and the CD delivery mode is set.

MC Hot Reset

- This mode resets the set with the preset data kept stored in the memory. The hot reset mode functions same as if the power cord is plugged in and out.

Procedure:

1. Press three buttons [⏻/CLOCK SET], [ENTER], and [DISC 1] simultaneously.
2. The fluorescent indicator tube becomes blank instantaneously, and the set is reset.

Sled Servo Mode

- This mode can run the CD sled motor freely. Use this mode, for instance, when cleaning the pick-up.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Press three buttons [⏻/CLOCK SET], [ENTER], and [DISC 5] simultaneously.
3. The Sled Servo mode is selected, if "CD" is blanking on the fluorescent indicator tube.
4. With the CD in stop status, When the [◀◀ AMS ▶▶] knob is rotated in the clockwise direction, the pick-up moves outside. When rotated counterclockwise, it moves inside.
5. To exit from this mode, perform as follows:
 - 1) Move the pick-up to the most inside track.
 - 2) Execute MC cold reset. (Press the three buttons [⏻/CLOCK SET], [ENTER], and [I/⏻] button simultaneously.)

Note:

- Always move the pick-up to most inside track when exiting from this mode. Otherwise, a disc will not be unloaded.
- Do not run the sled motor excessively, otherwise the gear can be chipped.

Change-over of AM Tuner Step between 9kHz and 10kHz

- A step of AM channels can be changed over between 9kHz and 10kHz.

Procedure:

1. Press [I/⏻] button to turn the set ON.
2. Select the function "TUNER", and press [TUNER/BAND] button to select the BAND "AM".
3. Press [I/⏻] button to turn the set OFF.
4. Press [ENTER] and [I/⏻] buttons simultaneously, and the display of fluorescent indicator tube changes to "AM 9k STEP" or "AM 10k STEP", and thus the channel step is changed over.

LED and Fluorescent Indicator Tube All Lit, Key Check Mode

Procedure:

1. Press three buttons [⏻/CLOCK SET], [ENTER], and [DISC 2] simultaneously.
2. LEDs and fluorescent indicator tube are all turned on.
Press [DISC 2] button, and the key check mode is activated.
3. In the key check mode, the fluorescent indicator tube displays "K @ V0 J0". Each time a button is pressed, "K" value increases. However, once a button is pressed, it is no longer taken into account.
"J" Value increases like 1, 2, 3 ... if rotating [◀◀ AMS ▶▶] knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
"V" Value increases like 1, 2, 3 ... if rotating [VOLUME] knob in "+" direction, or it decreases like 0, 9, 8 ... if rotating in "-" direction.
4. To exit from this mode, press three buttons in the same manner as step 1, or disconnect the power cord.

AMS Test Mode

- This mode is used for checking the AMS operations of the tape deck.

JIG

7-819-039-12 Alignment tape, AMS-110A

Procedure:

1. Press the  button to turn the set ON.
2. Set the tape (AMS-110A).
3. Press the three buttons , , and  button simultaneously.
4. "TEST MODE" is displayed on the fluorescent display tube.
5. Press the  button and switch the function to the deck with the tape (AMS-110A).
6. Press the  button. "AMS CHECK" is displayed on the fluorescent display tube and the tape is rewound.
7. AMS starts in the normal direction. If the AMS count is 2 at shut down, proceed to step 8.
"NG" is displayed at other times, and the deck stops.
8. AMS starts in the opposite direction. If the AMS count is 2 at shut down again, "OK" is displayed.
"NG" is displayed at other times.

Aging Mode

During the aging mode, both the CD player and tape deck are executed together.

• If an error occurs:

Aging stops, and the error state is displayed on the fluorescent display tube.

• If no error occurs:

Aging is repeated.

Procedure:

1. Press the  button to turn the set ON.
2. Load 10 minute tapes with unbent rec-proof tabs in decks A and B.
3. Set CDs on the DISC 1 and DISC 4 tables.
4. Set the CD mode REPEAT to OFF and PLAY MODE to ALL DISCS.
(Press the  and  buttons to set these modes.)
5. Press the  button to switch the function to "CD".
6. Press the three buttons , , and  button simultaneously.
7. Aging starts.
8. To end aging, press the  button to turn the set OFF.

Aging Sequence:

Aging is performed in the following sequence.

• Tape Deck

1. The tape in deck A is rewound. "TAPE A AG-1" is displayed.
2. The FWD side of deck A is played for two minutes.
"TAPE A AG-2" is displayed.
3. The tape in deck A is fast forwarded. "TAPE A AG-3" is displayed. Fast forward is carried out for 20 seconds or to the tape end.
4. The RVS side of deck A is played for two minutes.
"TAPE A AG-4" is displayed.
5. The tape in deck A is rewound. "TAPE A AG-5" is displayed.
6. The FWD side of deck B is played for two minutes.
"TAPE B AG-2" is displayed.
7. The tape in deck B is fast forwarded. "TAPE B AG-3" is displayed. Fast forward is carried out for 20 seconds or to the tape end.
8. The RVS side of deck B is played for two minutes.
"TAPE B AG-4" is displayed.
9. The tape in deck A is rewound. "TAPE A AG-5" is displayed.
10. Repeated from step 2.

• CD

1. The tray rotates.
2. DISC 1 is chucked.
3. The TOC is read.
4. The first track is played for 2 seconds.
5. The last track is played for 2 seconds.
6. The tray rotates.
7. DISC 4 is chucked.
8. The TOC is read.
9. The first track is played for 2 seconds.
10. The last track is played for 2 seconds.
11. Repeated from step 1.

- Display when ended abnormally

When the tape deck is abnormal:

The state when ended abnormally is displayed.

The contents of display are the same as that during aging.

When the CD player is abnormal:

A message indicating that errors such as “CD MEC ERR” have occurred.

Check the error contents in the following error history display mode.

Error History Display Mode

Mode which enables the history of error occurring in the CD player to be checked.

Execute this mode after ending the aging mode.

Procedure:

1. Press the **I/⏻** button to turn the set ON.
 2. Press the three buttons **⌚/CLOCK SET**, **ENTER**, and **CD SYNCHRO** simultaneously.
 3. A message such as “EMC@@@EDC**” is displayed.
 @@ : Number of mechanical errors (Up to three past errors)
 ** : Number of errors (NO DISC ERROR) which occurs after chucking (Up to three past errors)
 4. When checking the history of mechanical errors, press the **PLAY MODE** button. When checking errors after chucking, press the **REPEAT** button to switch the display.
 5. Press the **I/⏻** button to end and turn the set OFF.
 6. To erase the error history, perform COLD reset.
 (Press the three buttons **⌚/CLOCK SET**, **ENTER**, and **DISC 1** simultaneously.)
- Viewing the mechanical error history display
 (Switch the history by pressing the **PLAY MODE** button.)

Display

E@@@M#*****

@@ : Error number. 00 is the newest.

: Operating state of table

0 : Currently in the INITIAL mode

7 : Currently rotating to the right

8 : Currently rotating to the left

A : Currently chucking down

B : Currently chucking up

* : Invalid

- Viewing the NO DISC ERROR history display
(Switch the history by pressing the REPEAT button.)

Display

E@@D##\$\$%*

@@ : Error number. 00 is the newest

: Error contents
 01: Focus error
 02: GFS error
 03: Setup error

\$\$: Retries
 00: NO DISC is determined without attempting chucking retry
 02: NO DISC is determined after chucking retry.

% : State when determined as NO DISC
 1 : When stopped
 2 : At setup
 3 : At TOC READ
 4 : When accessing
 5 : When playing
 6 : When pausing
 7 : When manual searching (during play)
 8 : When manual searching (during pausing)
 * : Invalid

SECTION 5 MECHANICAL ADJUSTMENTS

Precaution

1. Clean the following parts with a denatured alcohol-moistened swab:

record/playback heads	pinch rollers
erase head	rubber belts
capstan	idlers
2. Demagnetize the record/playback head with a head demagnetizer.
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

Mode	Torque meter	Meter reading
FWD	CQ-102C	31 to 71 g • cm (0.43 – 0.98 oz • inch)
FWD back tension	CQ-102C	2 to 6 g • cm (0.02 – 0.08 oz • inch)
REV	CQ-102RC	31 to 71 g • cm (0.43 – 0.98 oz • inch)
REV back tension	CQ-102RC	2 to 6 g • cm (0.02 – 0.08 oz • inch)
FF/REW	CQ-201B	71 to 143 g • cm (0.98 – 1.99 oz • inch)
FWD tension	CQ-403A	100 g or more (3.53 oz or more)
REV tension	CQ-403R	100 g or more (3.53 oz or more)

SECTION 6 ELECTRICAL ADJUSTMENTS

DECK SECTION

0 dB=0.775V

1. Demagnetize the record/playback head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.
7. Switches and controls should be set as follows unless otherwise specified.

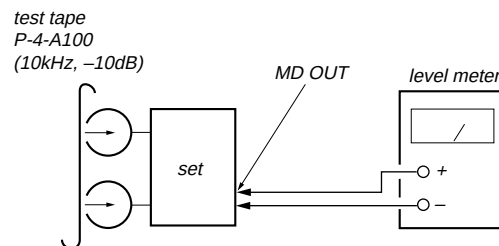
Tape	Signal	Used for
P-4-A100	10 kHz, -10 dB	Azimuth Adjustment
WS-48B	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Level Adjustment

Record/Playback Head Azimuth Adjustment (Deck A, Deck B)

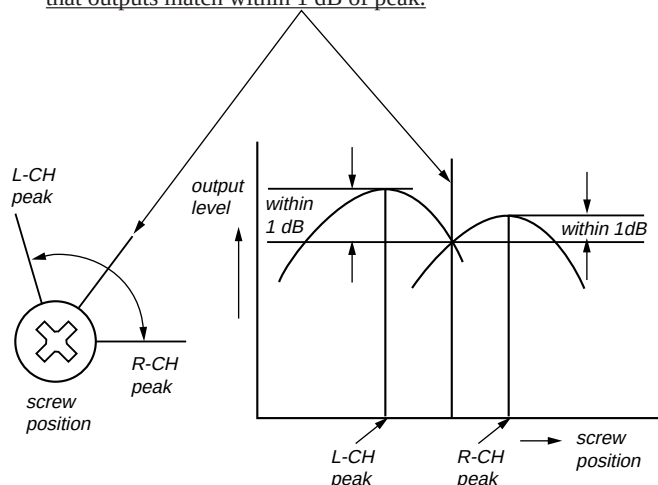
Note: Perform this adjustments for both decks.

Procedure:

1. Mode : Playback

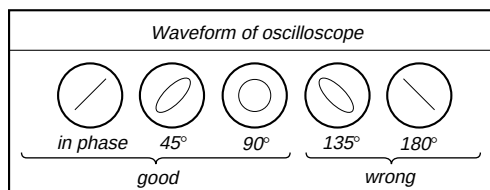
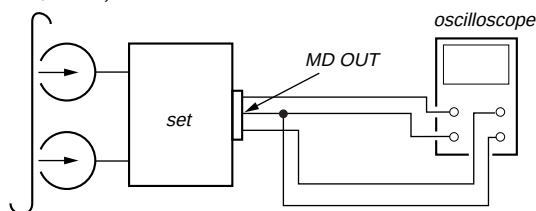


2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.



3. Mode: Playback

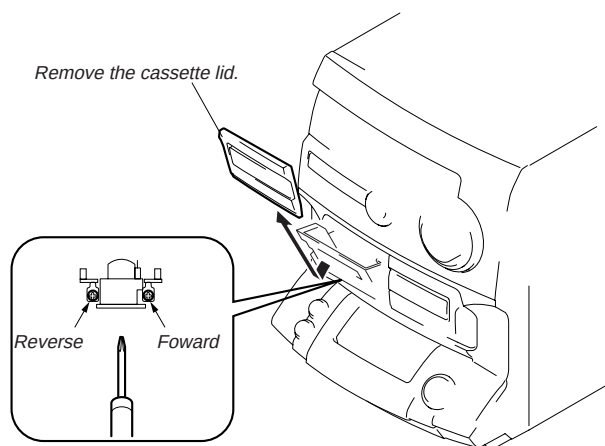
test tape
P-4-A100
(10kHz, -10dB)



- After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location: Playback Head (Deck A)

Record/Playback/Erase Head (Deck B)



Tape Speed Adjustment (Deck A)

Note: Set the test mode using the following method and begin tape speed adjustment.

In the test mode, the speed will switch to double speed or normal speed each time the **[HI-SPEED DUB]** button is pressed.

Procedure:

With the power turned ON, press the **[CLOCK SET]** button, **[ENTER]** button, and **[DISC 3]** button simultaneously.

(The "VOLUME" on the fluorescent display tube will blink while in the test mode.)

To exit the test mode, press the **[I/ON]** button.

- Insert the WS-48B into deck B.
- Press the **[>]** button of deck B.
- Press the **[HI-SPEED DUB]** button and play the tape at double speed.
- Adjust RV1001 of the LEAF SW board so that the reading of the frequency counter becomes 6000 ± 180 Hz.
- Press the **[HI-SPEED DUB]** button and play the tape at normal speed.
- Adjust RV1002 of the LEAF SW board so that the reading of the frequency counter becomes 3000 ± 90 Hz.

Adjustment Location: LEAF SW board

Sample Value of Wow and flutter

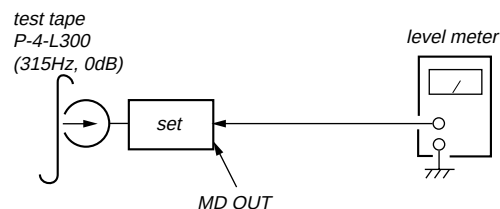
W.RMS (JIS) less than 0.3%

(test tape: WS-48B)

Playback Level Adjustment (Deck A, Deck B)

Procedure:

Mode: Playback



Deck A is RV311 (L-CH) and RV411 (R-CH), deck B is RV301 (L-CH) and RV401 (R-CH)

so that adjustment within the following adjustment level.

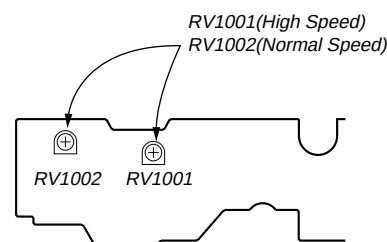
Adjustment level:

CN301 playback level: 301.5 to 338.3 mV (-8.2 to -7.2 dB)

level difference between the channels: within ± 0.5 dB

Adjustment Location: AUDIO board

Adjustment Location [LEAF SW BOARD]



Record Bias Adjustment (Deck B)

Procedure:

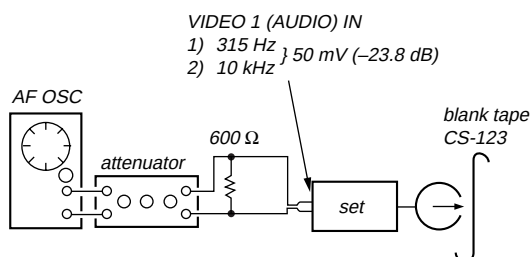
INTRODUCTION

When set to the test mode performed in **Tape Speed Adjustment**, when the tape is rewound after recording, the “REC memory mode” which rewinds only the recorded portion and playback is set.

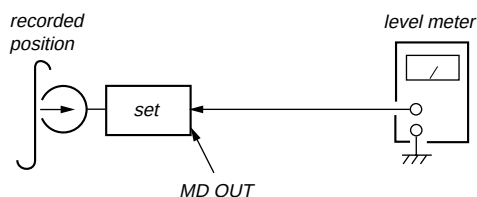
This “REC memory mode” is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO 1.

(After recording, press the  button without stopping will return to the position where recording was started.)

1. Press **FUNCTION** button to select VIDEO 1. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B, press the **REC** button, and then press the  button to start recording.
3. Mode: Record



4. Mode: Playback

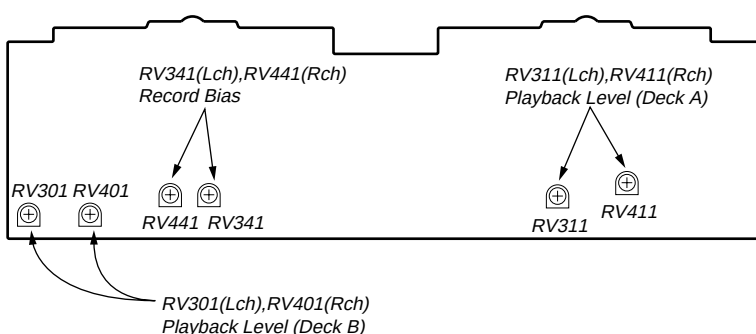


5. Confirm playback the signal recorded in step 2 become adjustment level as follows.
If these levels do not adjustment level, adjust the RV341 (L-CH) and RV441 (R-CH) on the AUDIO board to repeat steps 3 and 4.

Adjustment level: The playback output of 10 kHz level difference against 315 Hz reference should be ± 1.0 dB.

Adjustment Location: AUDIO board

Adjustment Location:
[AUDIO BOARD] (Conductor Side)



Record Level Adjustment (Deck B)

Procedure:

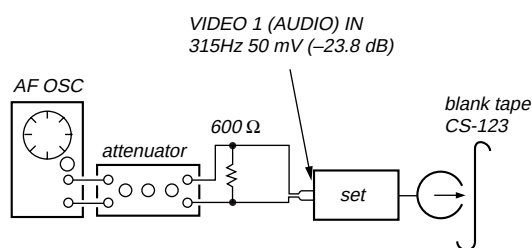
INTRODUCTION

When set to the test mode performed in **Tape Speed Adjustment**, when the tape is rewound after recording, the “REC memory mode” which rewinds only the recorded portion and playback is set.

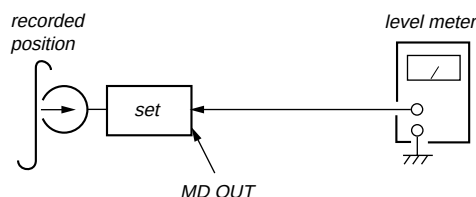
This “REC memory mode” is convenient for performing this adjustment. During recording, the input signal FUNCTION will automatically switch to VIDEO 1.

(After recording, press the  button without stopping will return to the position where recording was started.)

1. Press **FUNCTION** button to select VIDEO 1. (This step is not necessary if the above test mode has already been set.)
2. Insert a tape into deck B, press the **REC** button, and then press the  button to start recording.
3. Mode: Record



4. Mode: Playback

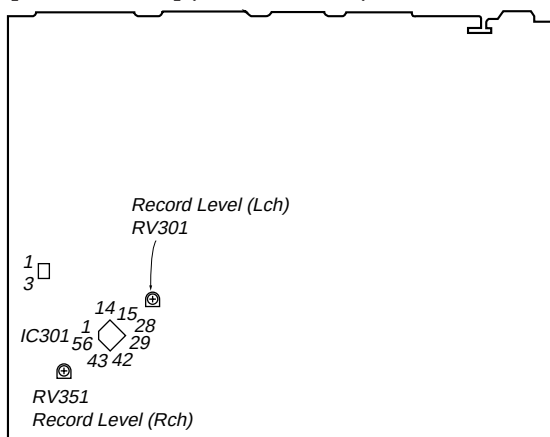


5. Confirm playback the signal recorded in step 2 become adjustment level as follows.
If these levels do not adjustment level, adjust the RV301 (L-CH) and RV351 (R-CH) on the MAIN board to repeat steps 3 and 4.

Adjustment level:
CN403 playback level: 47.2 to 53.0 mV (-24.3 to -23.3 dB)

Adjustment Location: MAIN board

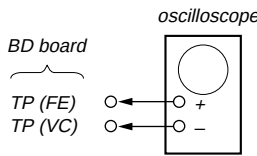
[MAIN BOARD] (Conductor Side)



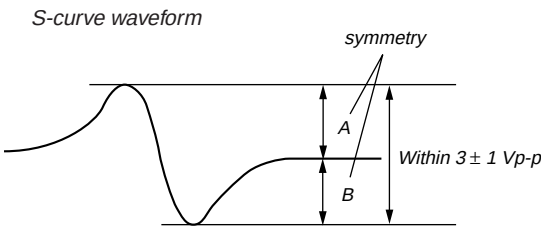
CD SECTION

- Note:**
1. CD Block is basically constructed to operate without adjustment. Therefore, check each item in order given.
 2. Use YEDS-18 disc (3-702-101-01) unless otherwise indicated.
 3. Use an oscilloscope with more than 10MΩ impedance.
 4. Clean the object lens by an applicator with neutral detergent when the signal level is low than specified value with the following checks.

S Curve Check

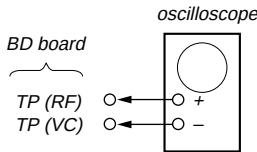


- Procedure :**
1. Connect the oscilloscope to test points TP (FE) and TP (VC).
 2. Connect TP (FEI) and GND, and TP (AGCCON) and GND of the BD board with lead wires.
 3. Press the button to turn the set ON.
 4. With the disc (YEDS-18) loaded, press the button and perform focus search. (Focus search will be performed in the same way even while the disc table is pushed in and out.)
 5. Check the symmetry and peak to peak level of the oscilloscope waveform (S curve) at this time.

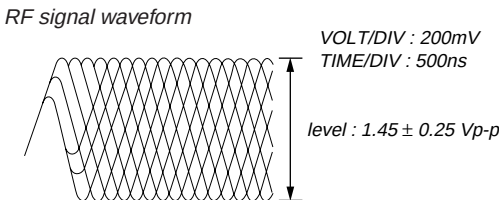


6. After check, remove the lead wire connected in step 2.
- Note:**
- Try to measure several times to make sure than the ratio of A : B or B : A is more than 10 : 7.
 - Take sweep time as long as possible and light up the brightness to obtain best waveform.

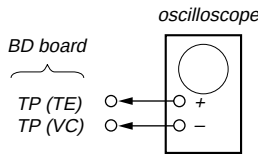
RF Level Check



- Procedure :**
1. Connect oscilloscope to test point TP (RF) and TP (VC) on BD board.
 2. Press the button to turn the set ON.
 3. Put disc (YEDS-18) in and playback 5 track.
 4. Confirm that oscilloscope waveform is clear and check RF signal level is correct or not.
- Note:** Clear RF signal waveform means that the shape “◇” can be clearly distinguished at the center of the waveform.

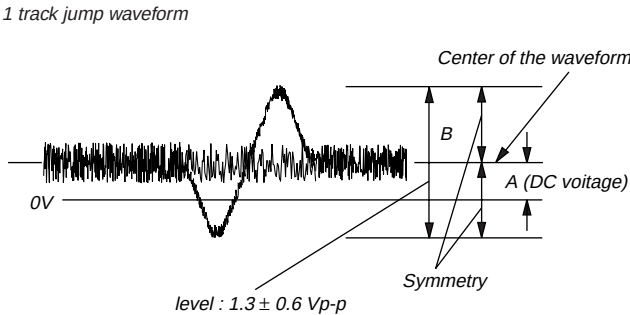


E-F Balance (1 Track Jump) check



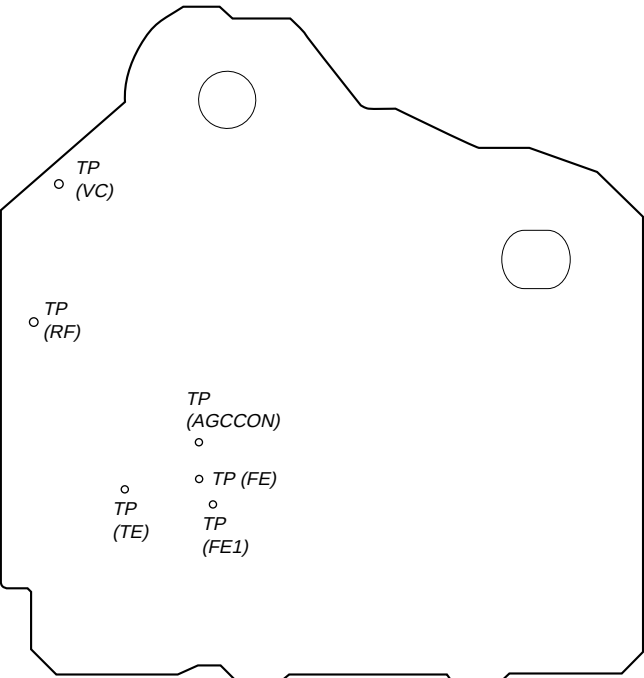
- Procedure:**
1. Connect oscilloscope to test point TP (TE) on BD board.
 2. Press the button to turn the unit ON.
 3. Put disc (YEDS-18) in to play the number five track.
 4. Press the button.
 5. Check the level B of the oscilloscope's waveform and the A (DC voltage) of the center of the Traverse waveform.
- Confirm the following:

- $A/B \times 100 = \text{less then } \pm 22 (\%)$
- $B = 1.3 \pm 0.6 \text{ Vp-p}$

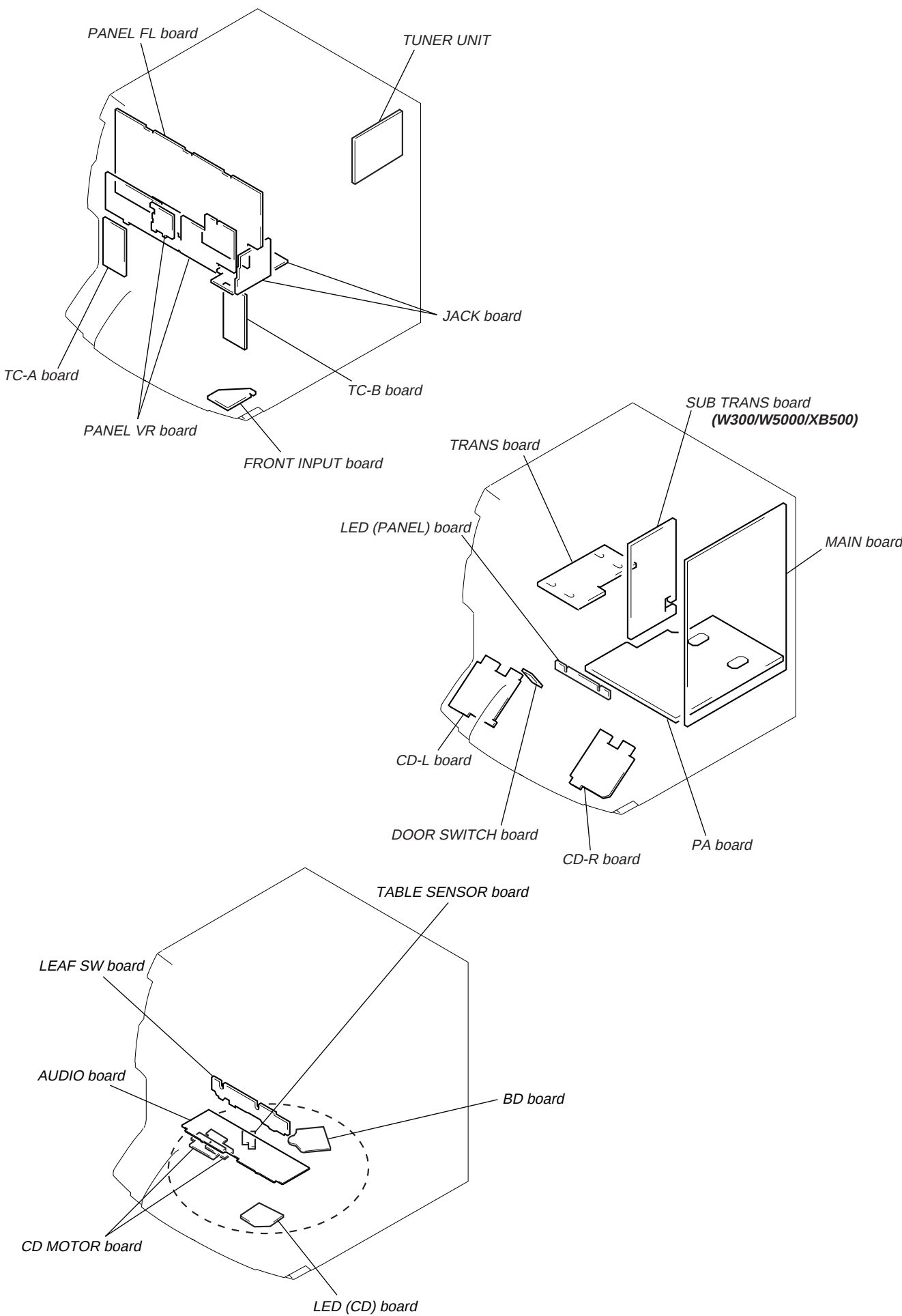


Adjustment Location :

[BD BOARD] — SIDE A —

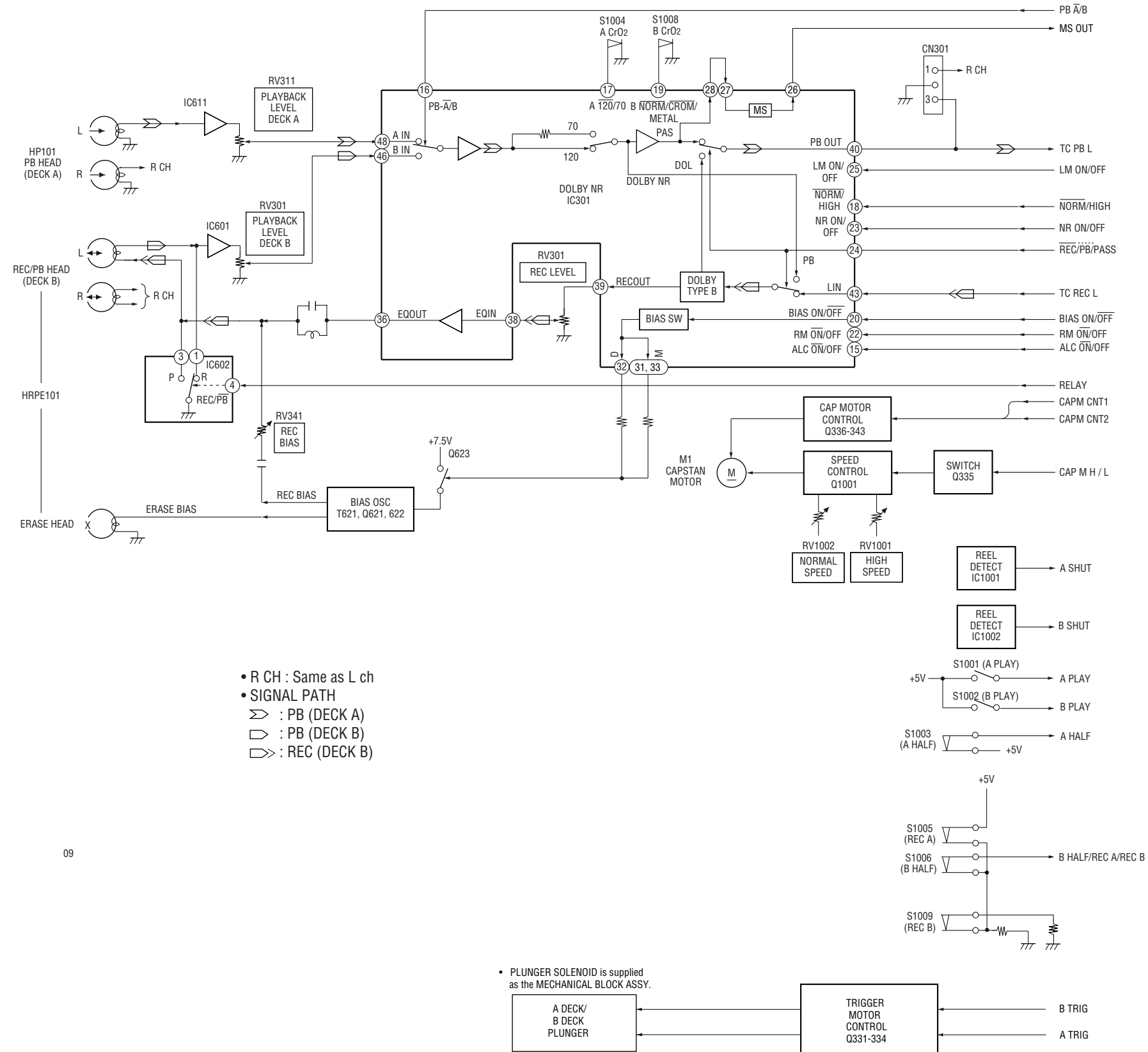


7-1. CIRCUIT BOARDS LOCATION



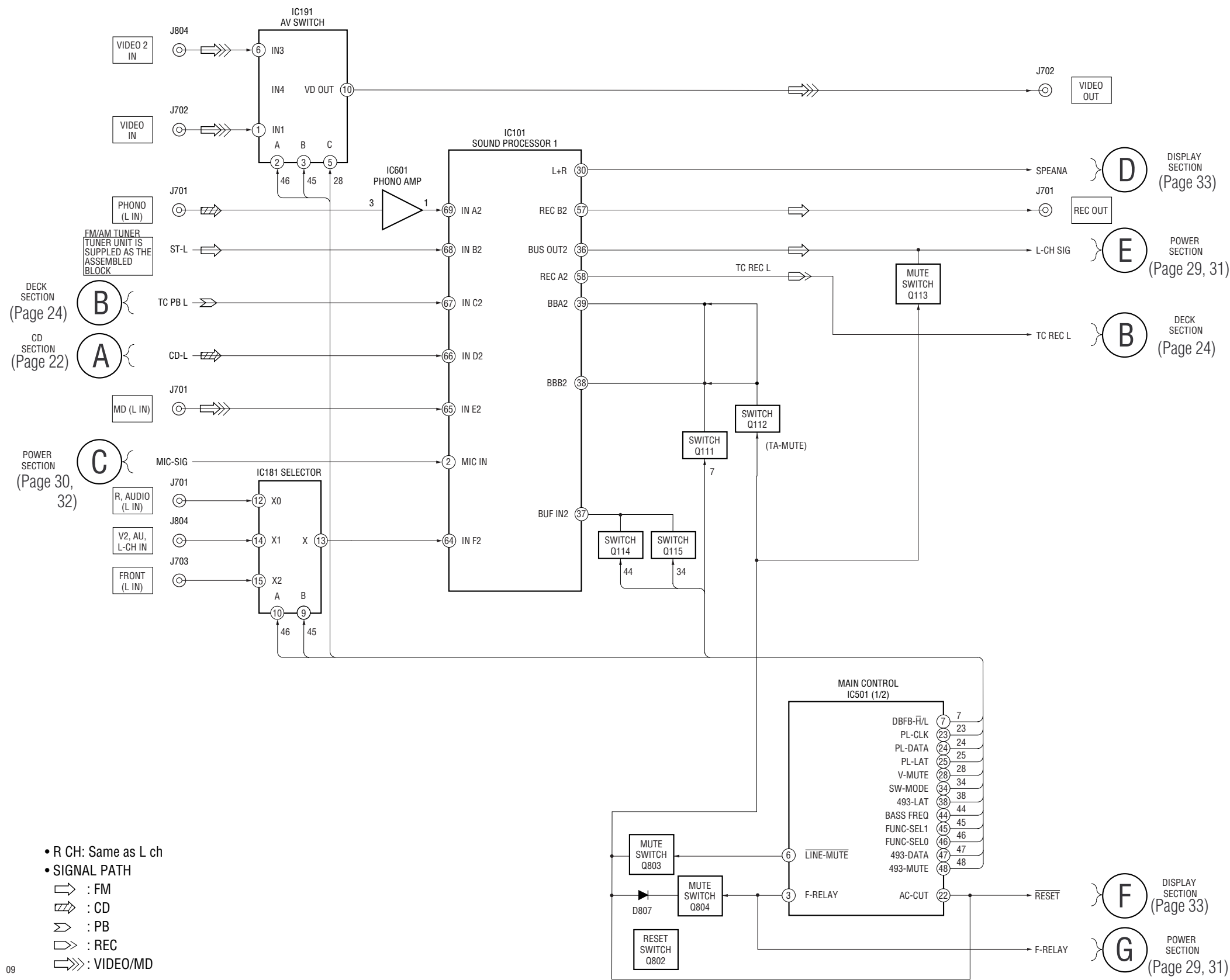


- DECK SECTION -

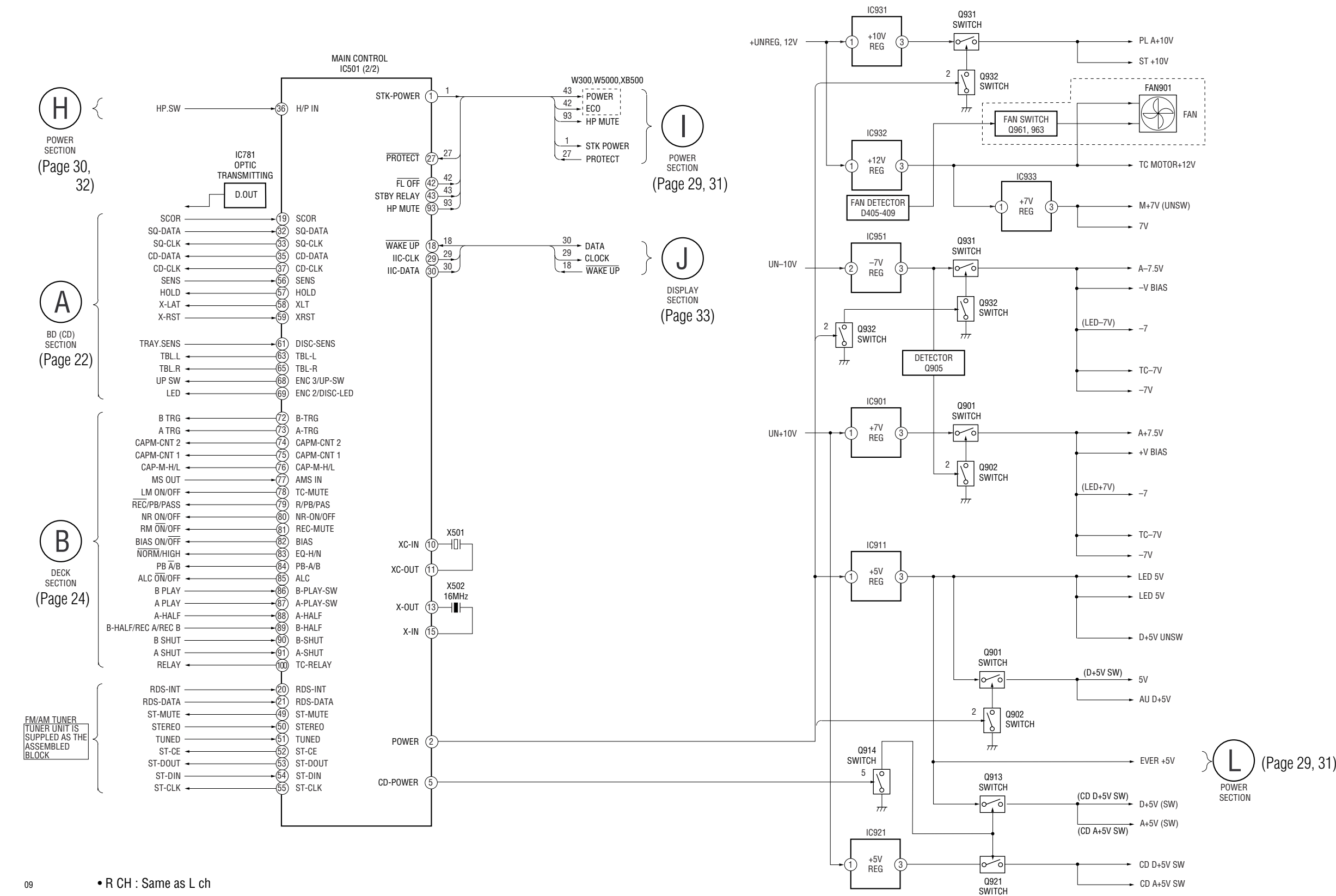


B
MAIN
SECTION
(Page 25,
26, 27)

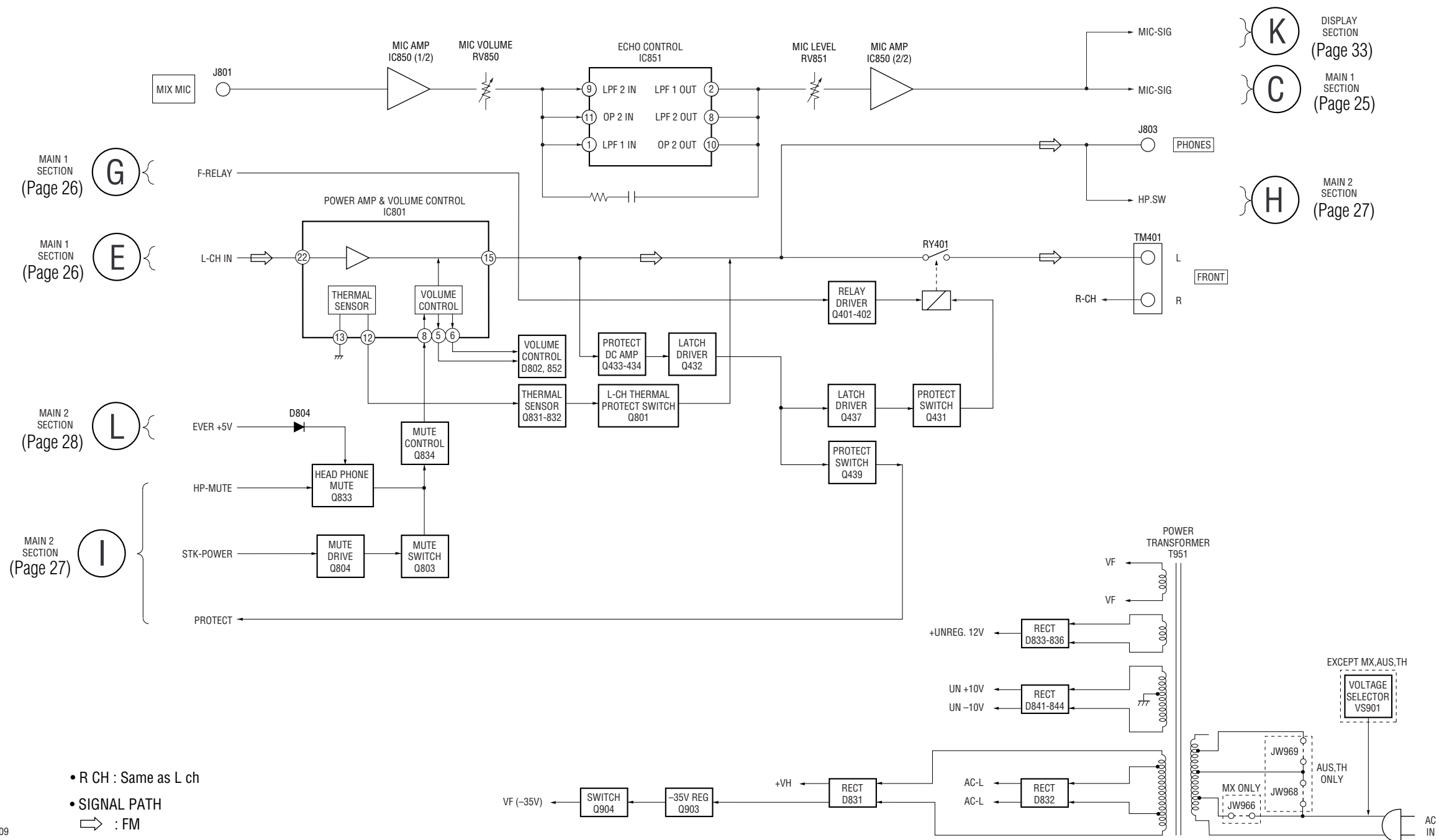
– MAIN (1/2) SECTION –



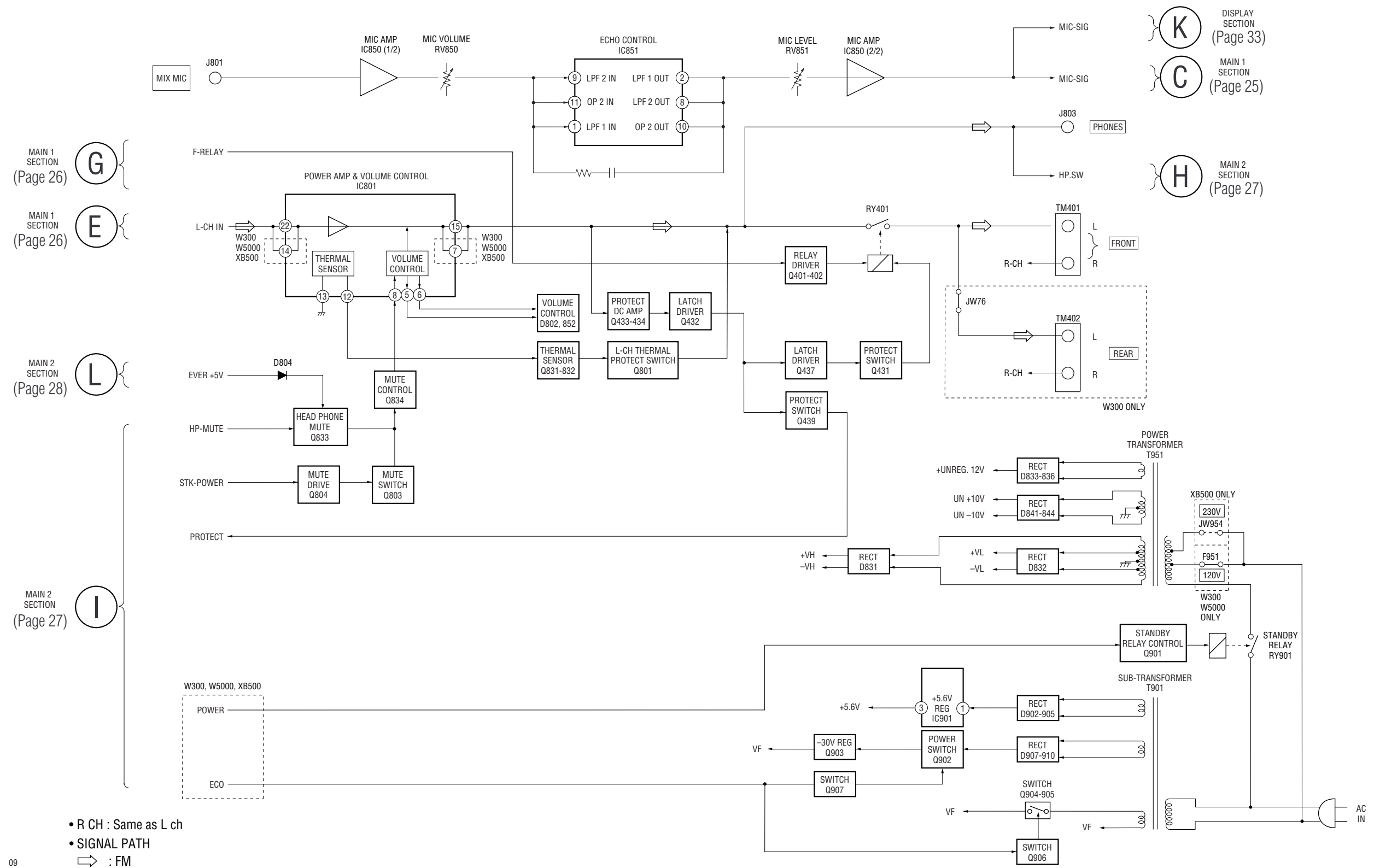
- MAIN (2/2) SECTION -



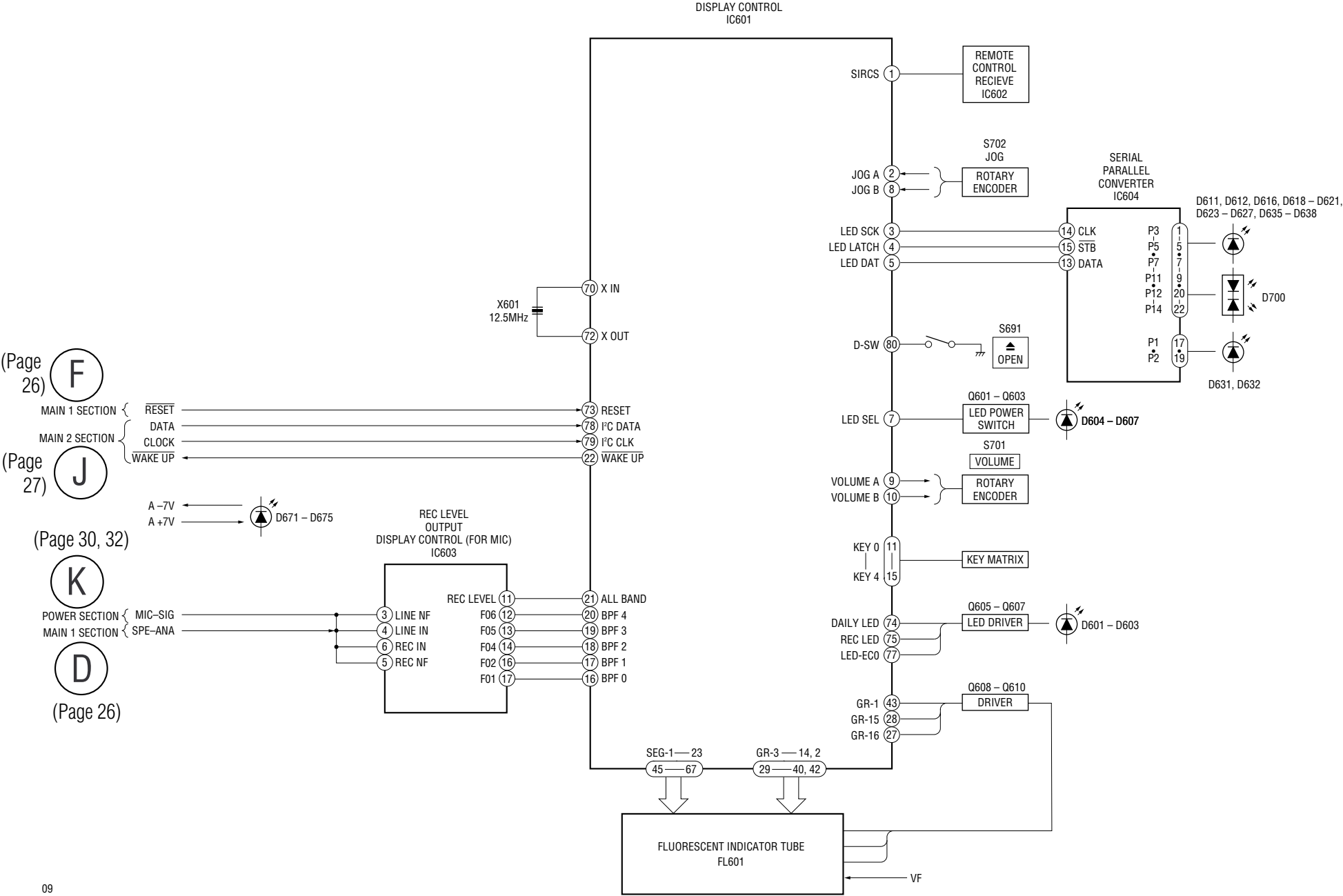
– POWER SECTION – (DR4, DR5, DR6, DR440 model)



– POWER SECTION – (W300, W5000, XB500 model)



– DISPLAY SECTION –



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

For schematic diagrams.

Note:

- All capacitors are in μF unless otherwise noted. pF : $\mu\mu\text{F}$ 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}W$ or less unless otherwise specified.
- $\triangle$: internal component.
- $\square$: panel designation.

Note:

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Note:

Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

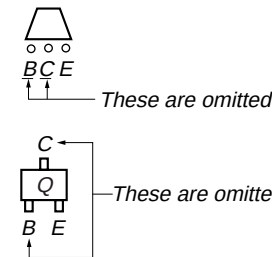
- $\boxed{B+}$: B+ Line.
- $\boxed{B-}$: B- Line.
- $\boxed{}$: adjustment for repair.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
- Voltages are taken with a VOM (Input impedance 10 $M\Omega$). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
 - $\Rightarrow$: FM
 - $\Rightarrow\Rightarrow$: VIDEO/MD
 - $\Rightarrow$: PB (DECK A)
 - $\Rightarrow$: PB (DECK B)
 - $\Rightarrow$: REC (DECK B)
 - $\Rightarrow$: CD
 - $\Rightarrow$: digital out
 - $\Rightarrow\Rightarrow$: PHONO
- Abbreviation
 - CND : Canadian model.
 - AUS : Australian model.

For printed wiring boards.

Note:

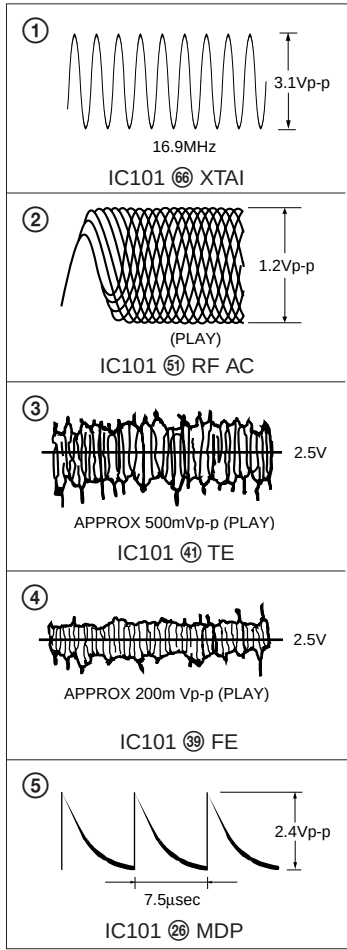
- $\circ$: parts extracted from the component side.
 - $\circ$: Through hole.
 - $\triangle$: internal component.
 - $\square$: Pattern from the side which enables seeing.
- (The other layers' patterns are not indicated.)

Indication of transistor

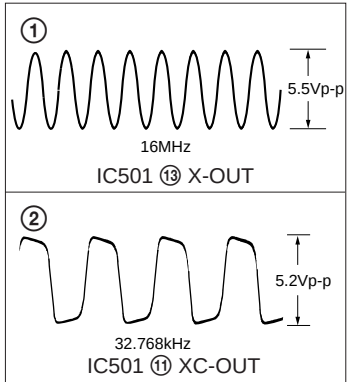


WAVEFORMS

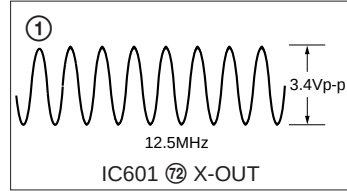
– BD (CD) SECTION –



– MAIN (2/5) SECTION –

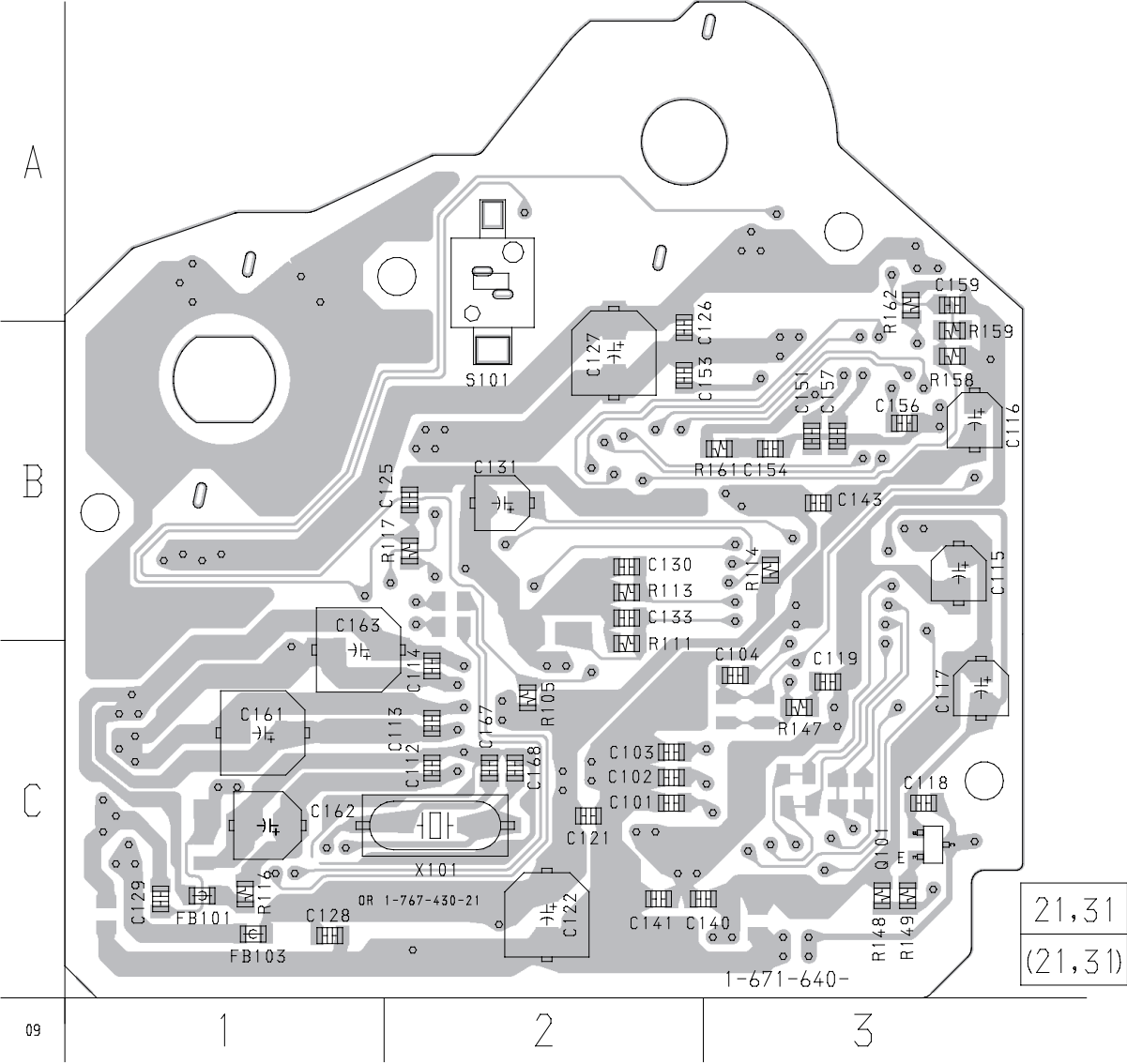


– PANEL FL SECTION –

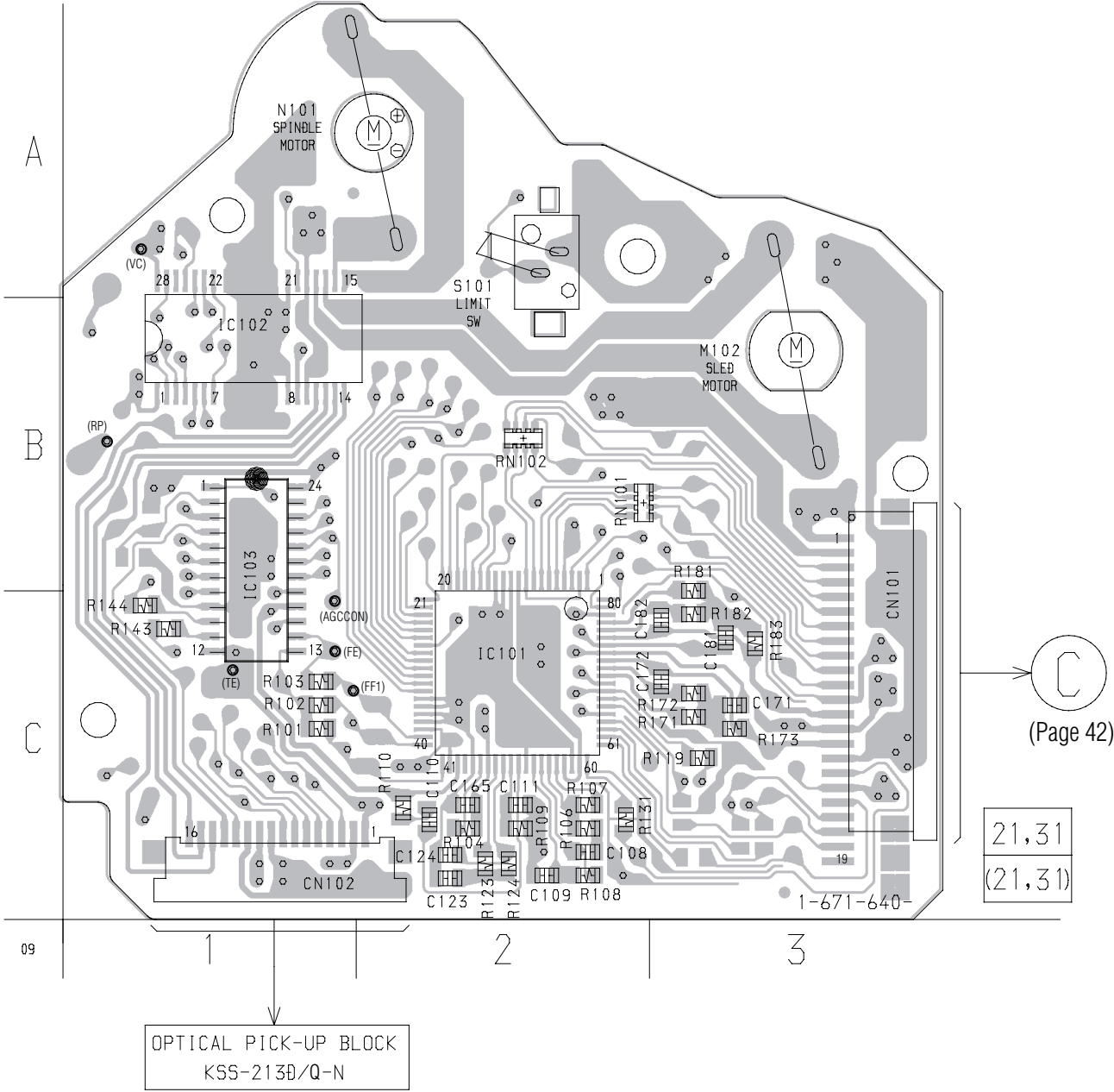


7-3. PRINTED WIRING BOARD – BD (CD) SECTION –
• See page 20 for Circuit Boards Location.

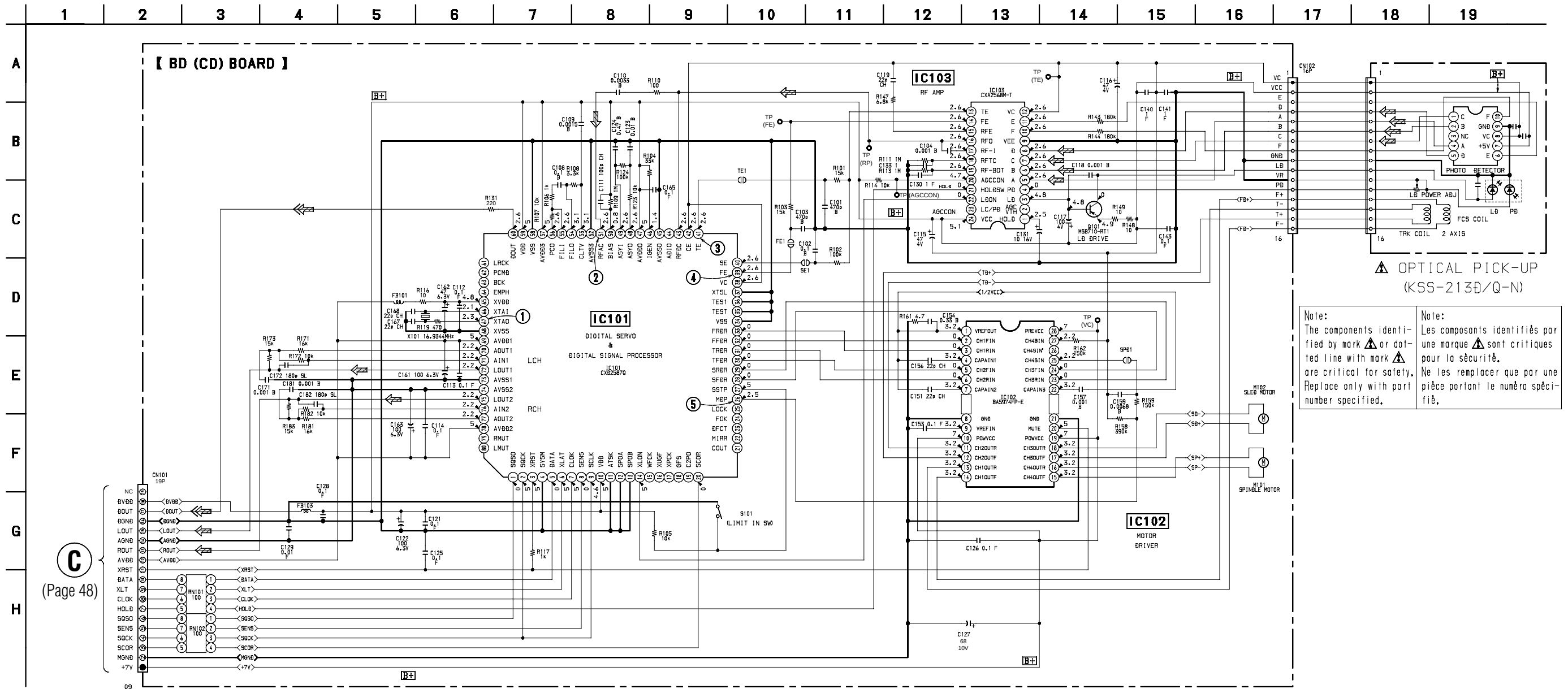
【 BD (CD) BOARD 】 (SIDE A)



【 BD (CD) BOARD 】 (SIDE B)



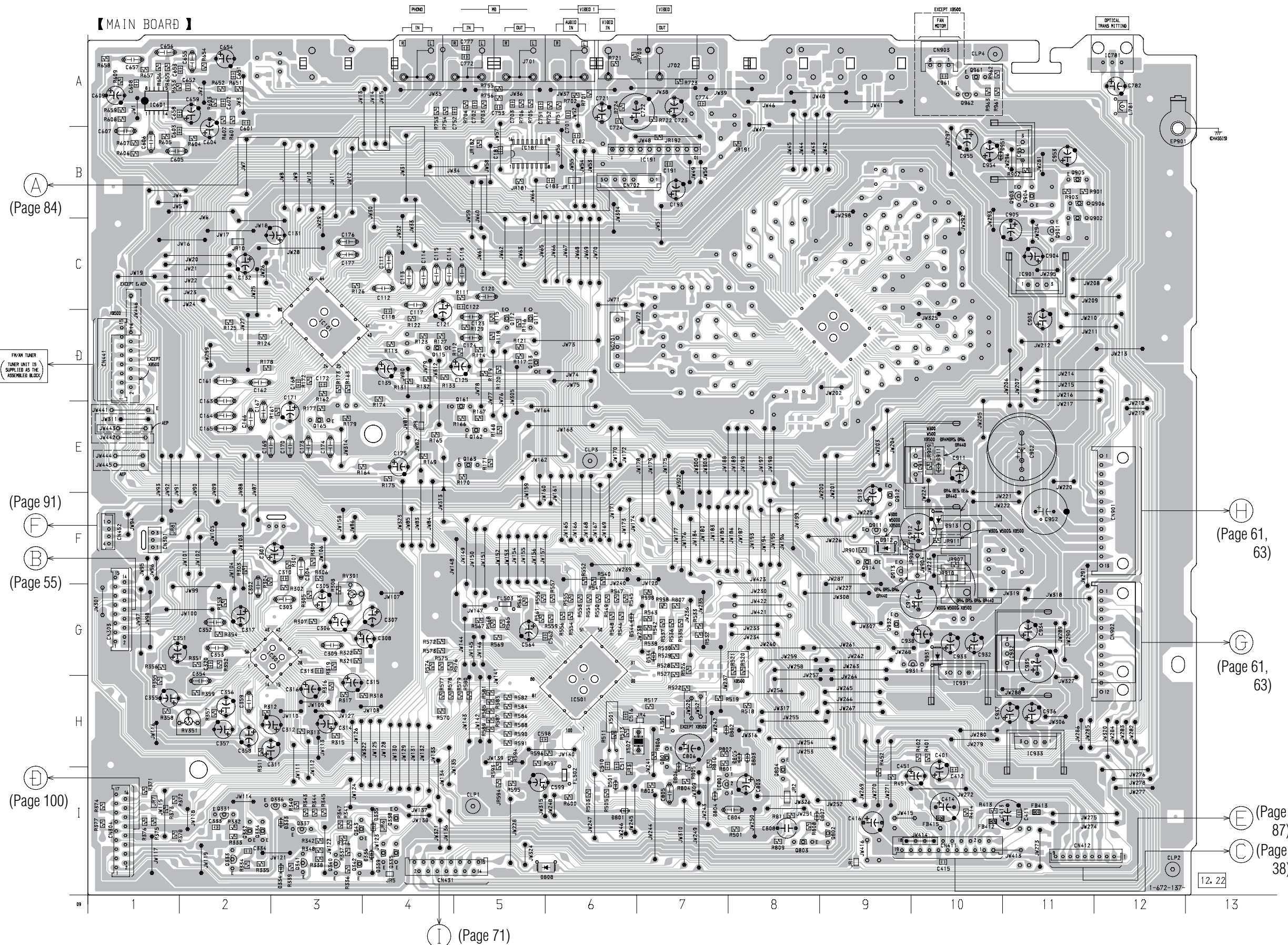
7-4. SCHEMATIC DIAGRAM – BD (CD) SECTION –
• See page 36 for Waveforms.



Semiconductor Location

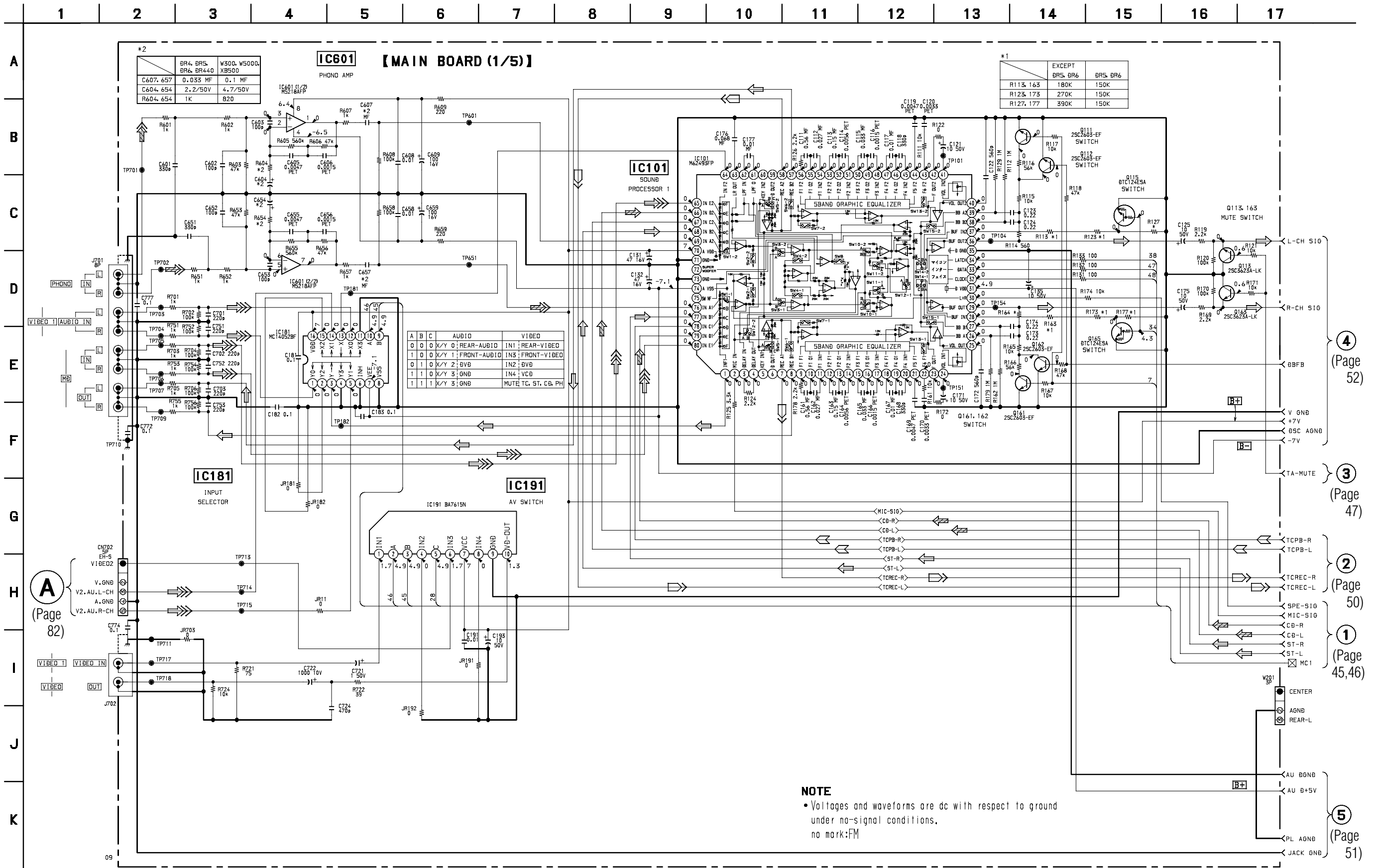
Ref. No.	Location
D333	I-3
D334	J-3
D335	I-4
D336	I-4
D501	I-6
D534	G-7
D802	H-8
D803	H-8
D804	H-7
D805	H-8
D806	H-7
D807	I-9
D808	J-6
D911	E-10
D912	F-9
D913	F-10
D931	G-10
D951	B-11
IC101	D-3
IC181	B-5
IC191	B-7
IC301	G-3
IC501	H-6
IC601	A-1
IC901	C-11
IC931	G-10
IC932	G-11
IC933	H-11
IC951	B-11
IC801	I-8
IC911	E-10
Q111	D-5
Q112	D-5
Q113	D-5
Q115	D-4
Q161	E-5
Q162	E-5
Q163	E-5
Q165	E-3
Q331	I-2
Q332	I-2
Q333	J-2
Q334	I-2
Q335	J-4
Q336	I-3
Q337	I-3
Q338	I-4
Q339	J-4
Q340	J-3
Q341	J-3
Q342	J-3
Q343	I-3
Q801	H-7
Q802	I-9
Q803	I-8
Q804	I-8
Q901	C-11
Q902	B-11
Q903	B-11
Q904	B-11
Q905	B-11
Q906	B-11
Q911	F-9
Q912	F-9
Q913	F-9
Q914	F-9
Q931	G-10
Q932	G-9
Q961	A-10
Q962	A-10

7-5. PRINTED WIRING BOARD – MAIN SECTION –
See page 20 for Circuit Boards Location.



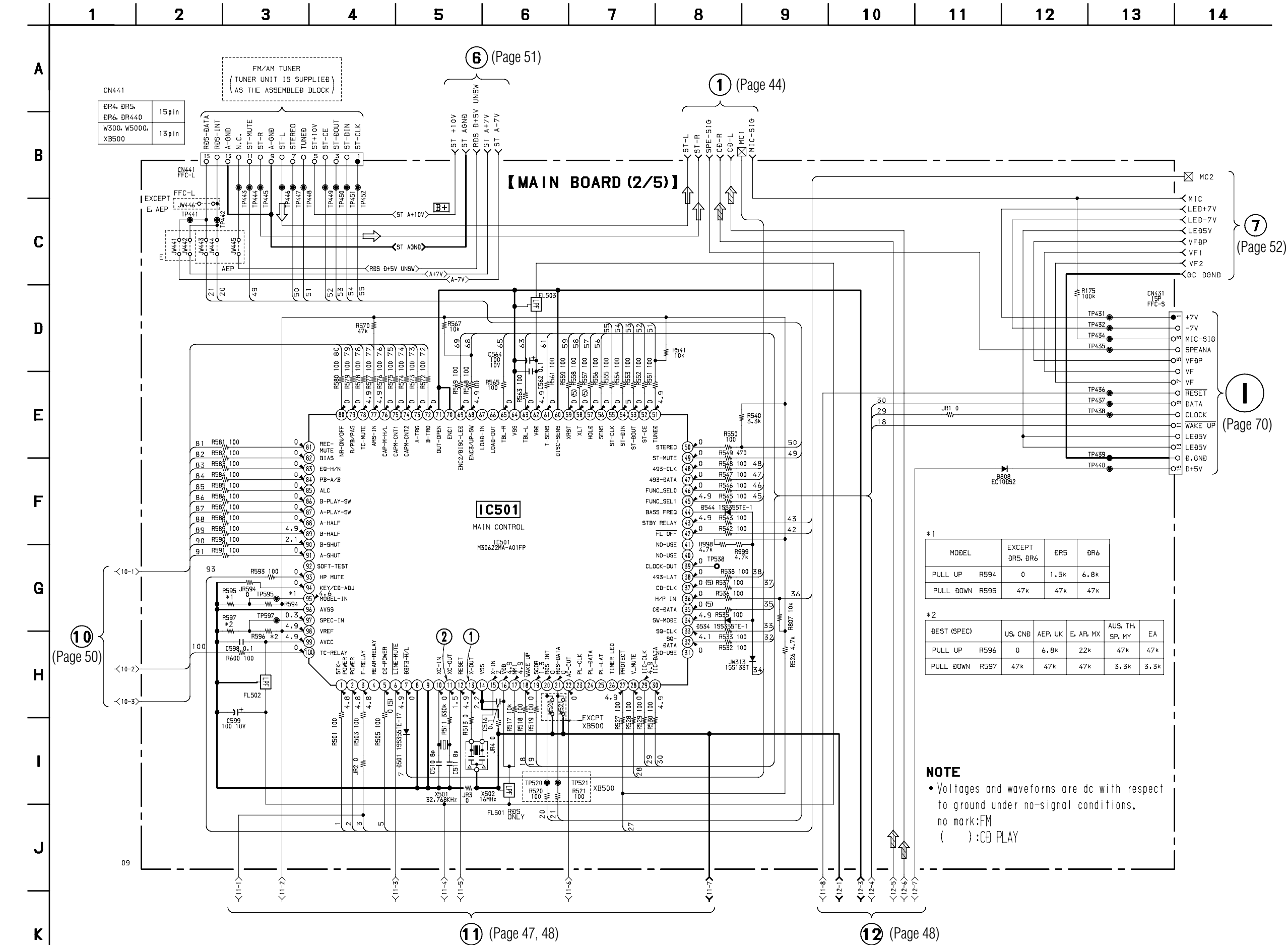
7-6. SCHEMATIC DIAGRAM – MAIN (1/5) SECTION –

- See page 101 for IC Block Diagrams.

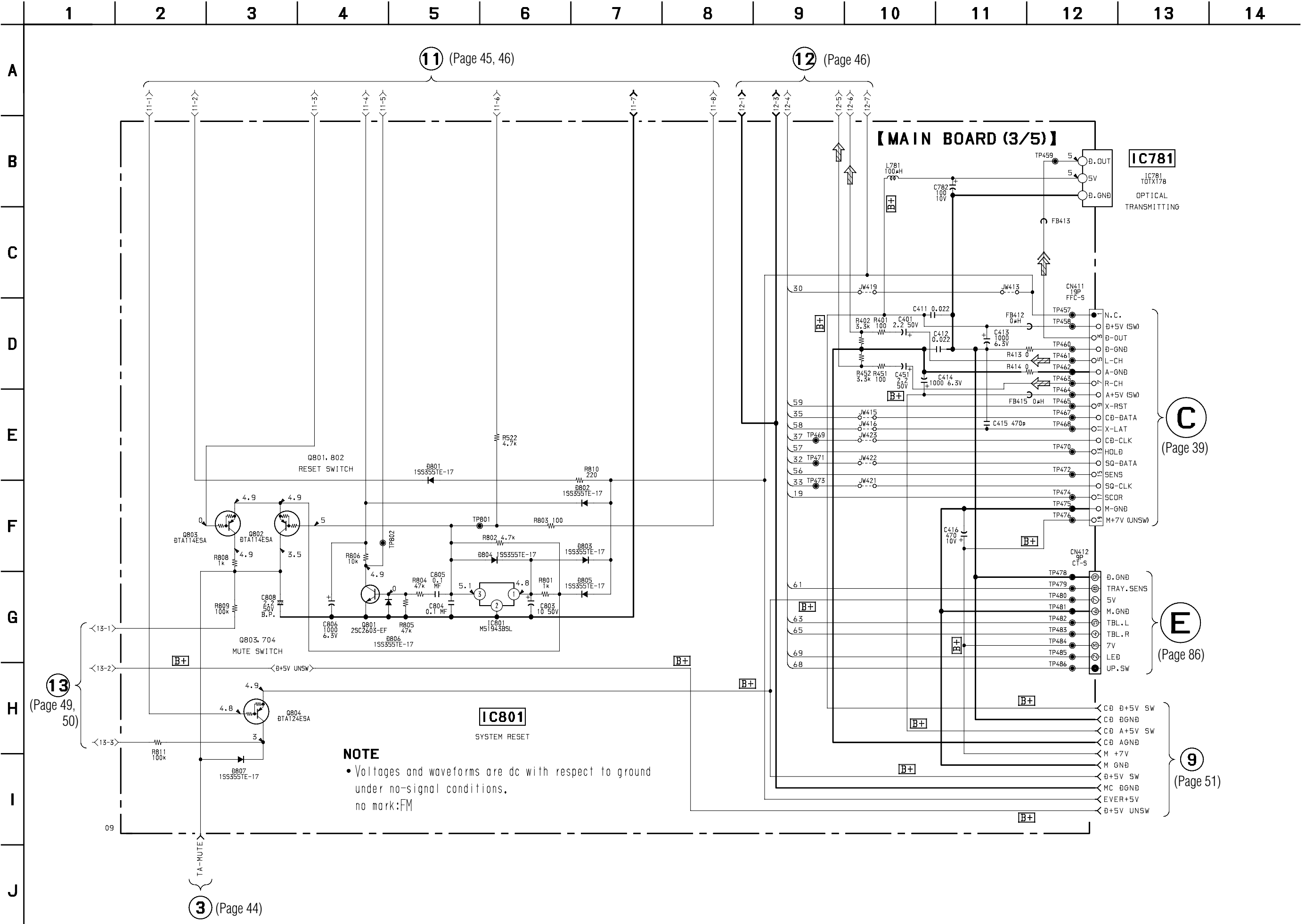


7-7. SCHEMATIC DIAGRAM – MAIN (2/5) SECTION –

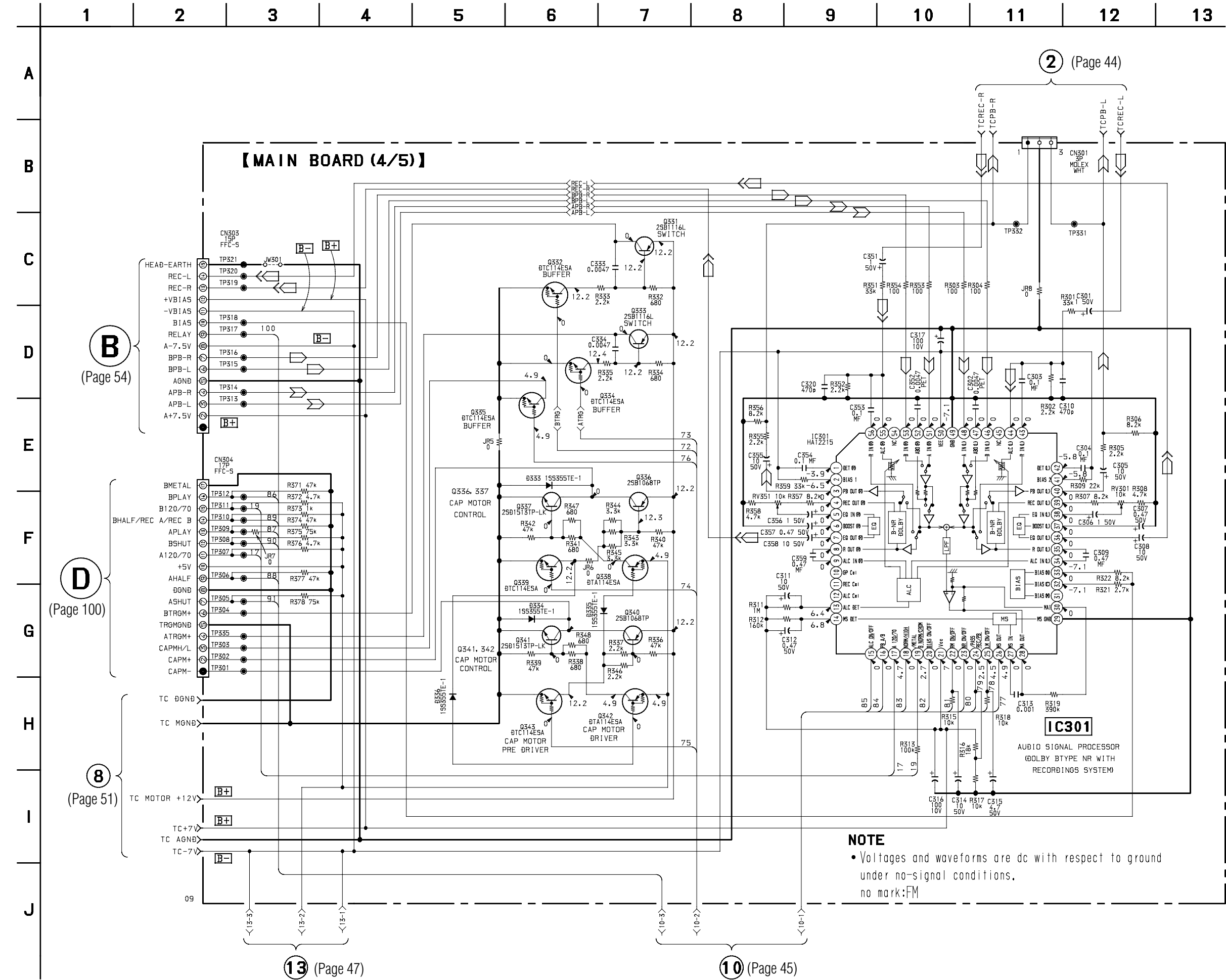
- See page 36 for Waveforms.
- See page 41 for Printed Wiring Board.
- See page 102 for IC Pin Functions.



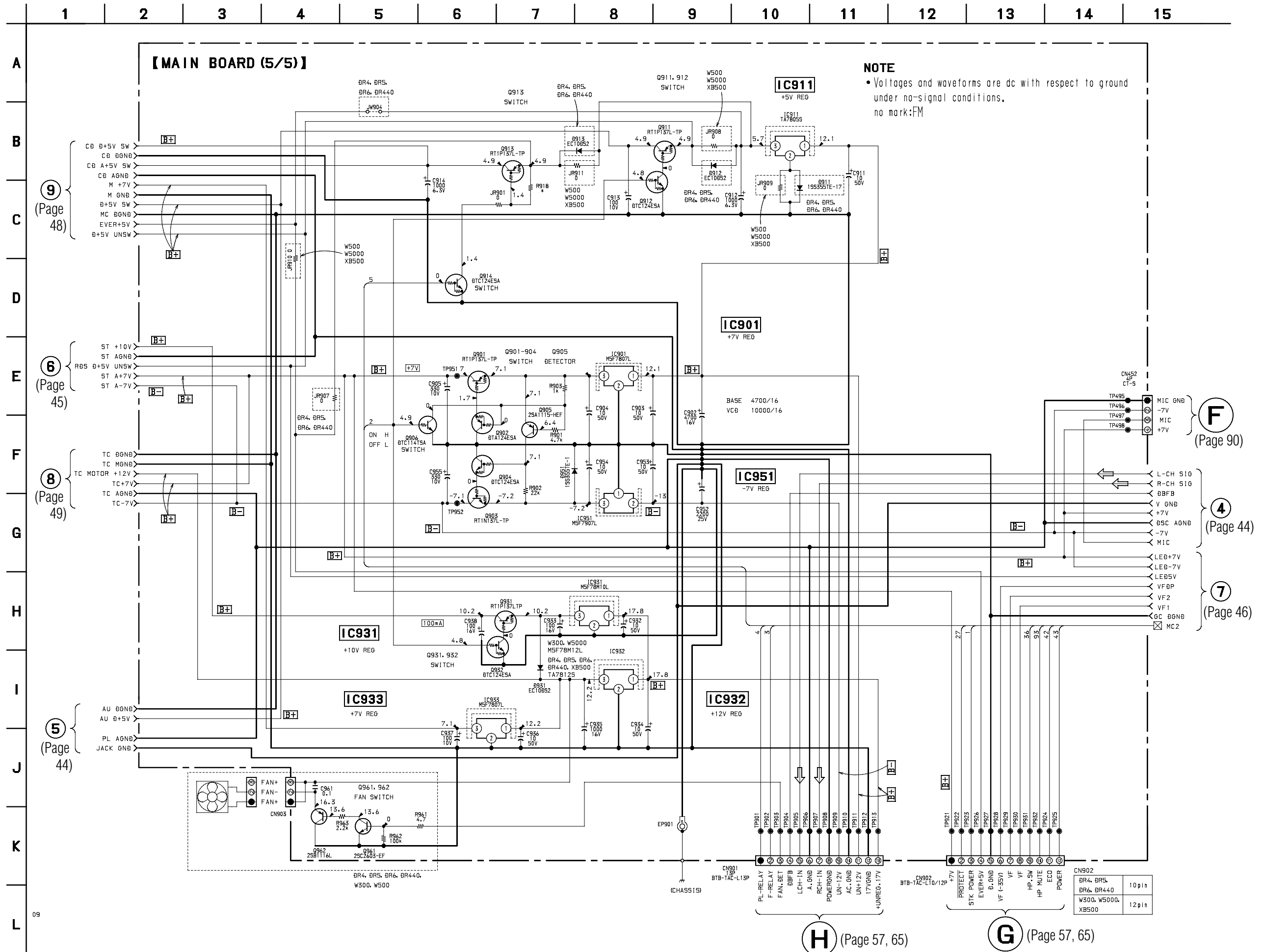
7-8. SCHEMATIC DIAGRAM – MAIN (3/5) SECTION –
• See page 41 for Printed Wiring Board.



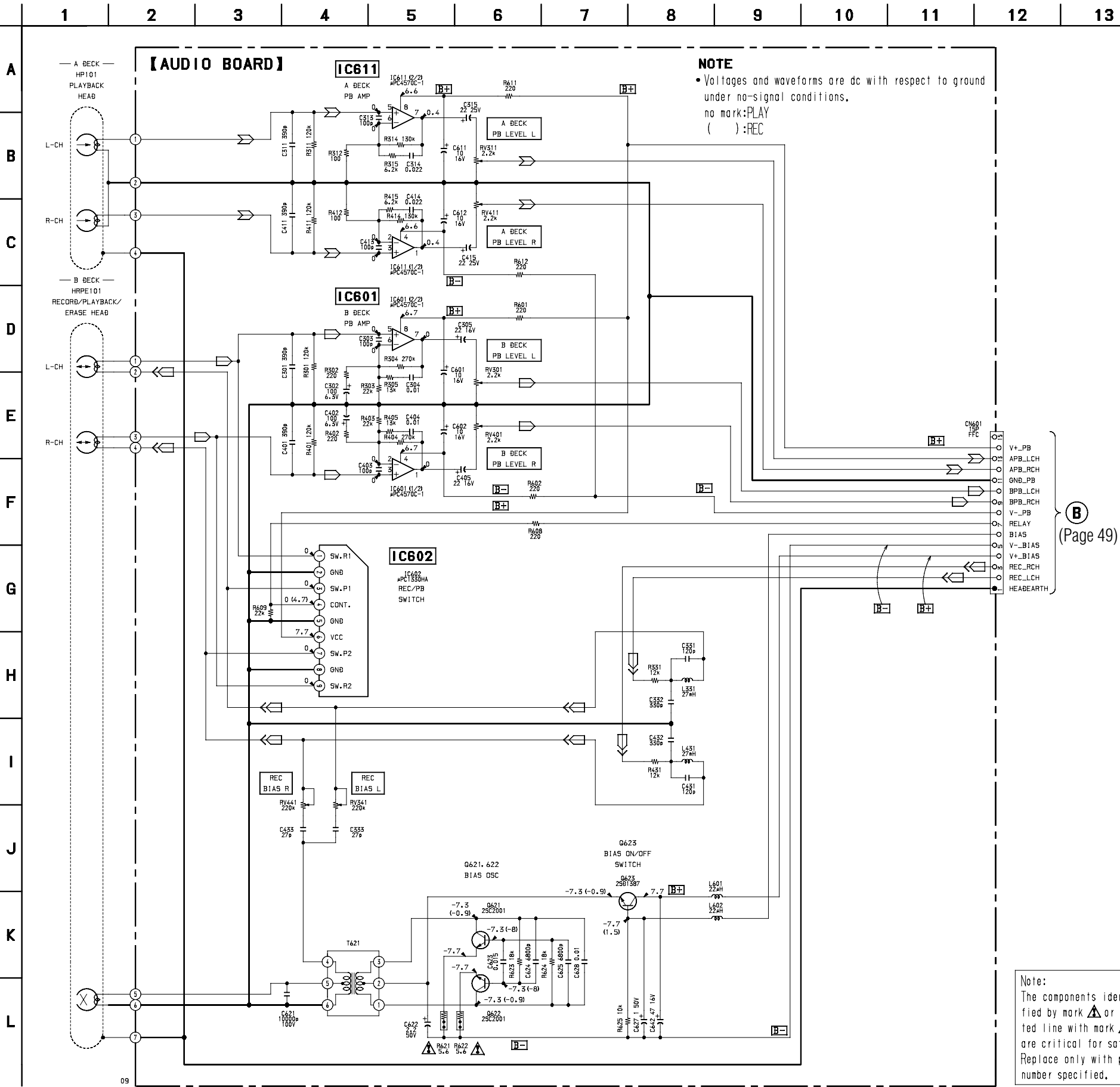
7-9. SCHEMATIC DIAGRAM – MAIN (4/5) SECTION –
• See page 41 for Printed Wiring Board.



7-10. SCHEMATIC DIAGRAM – MAIN (5/5) SECTION –
 • See page 41 for Printed Wiring Board.



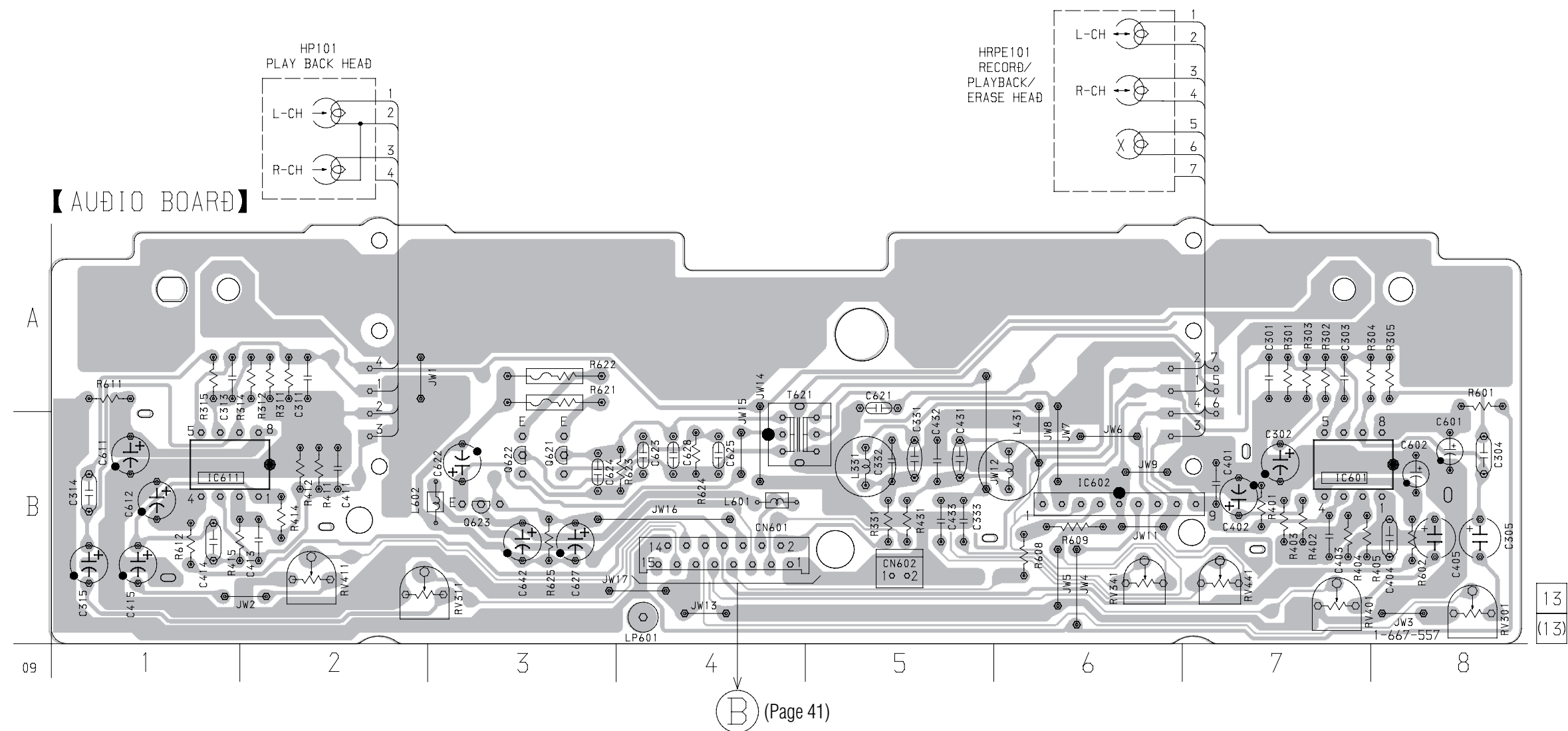
7-11. SCHEMATIC DIAGRAM – DECK SECTION –

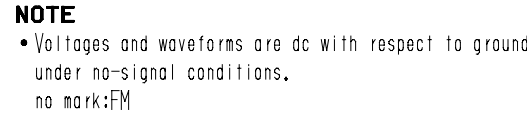


Note:
The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Note:
Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

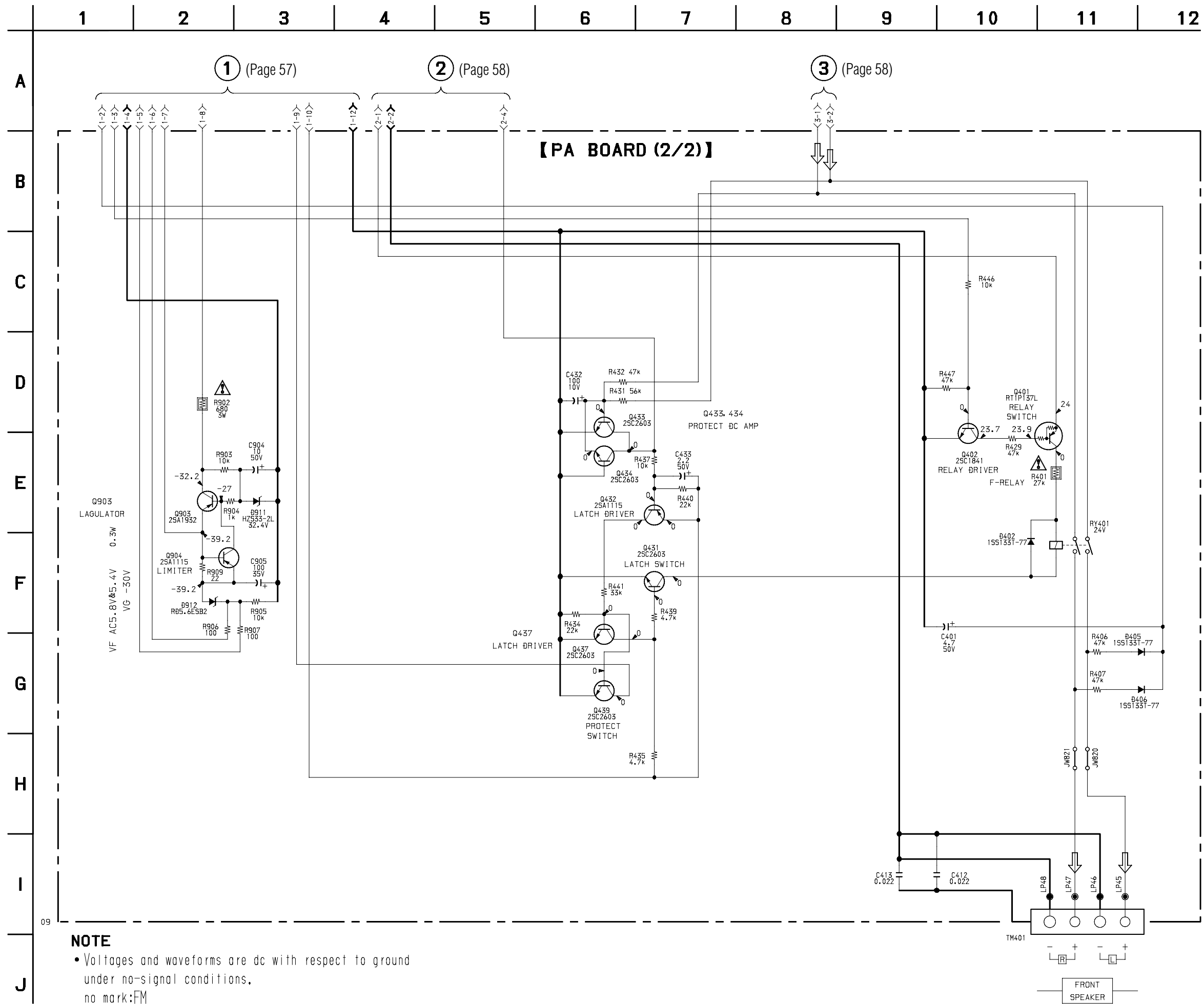
7-12. PRINTED WIRING BOARD – DECK SECTION –
• See page 20 for Circuit Boards Location.



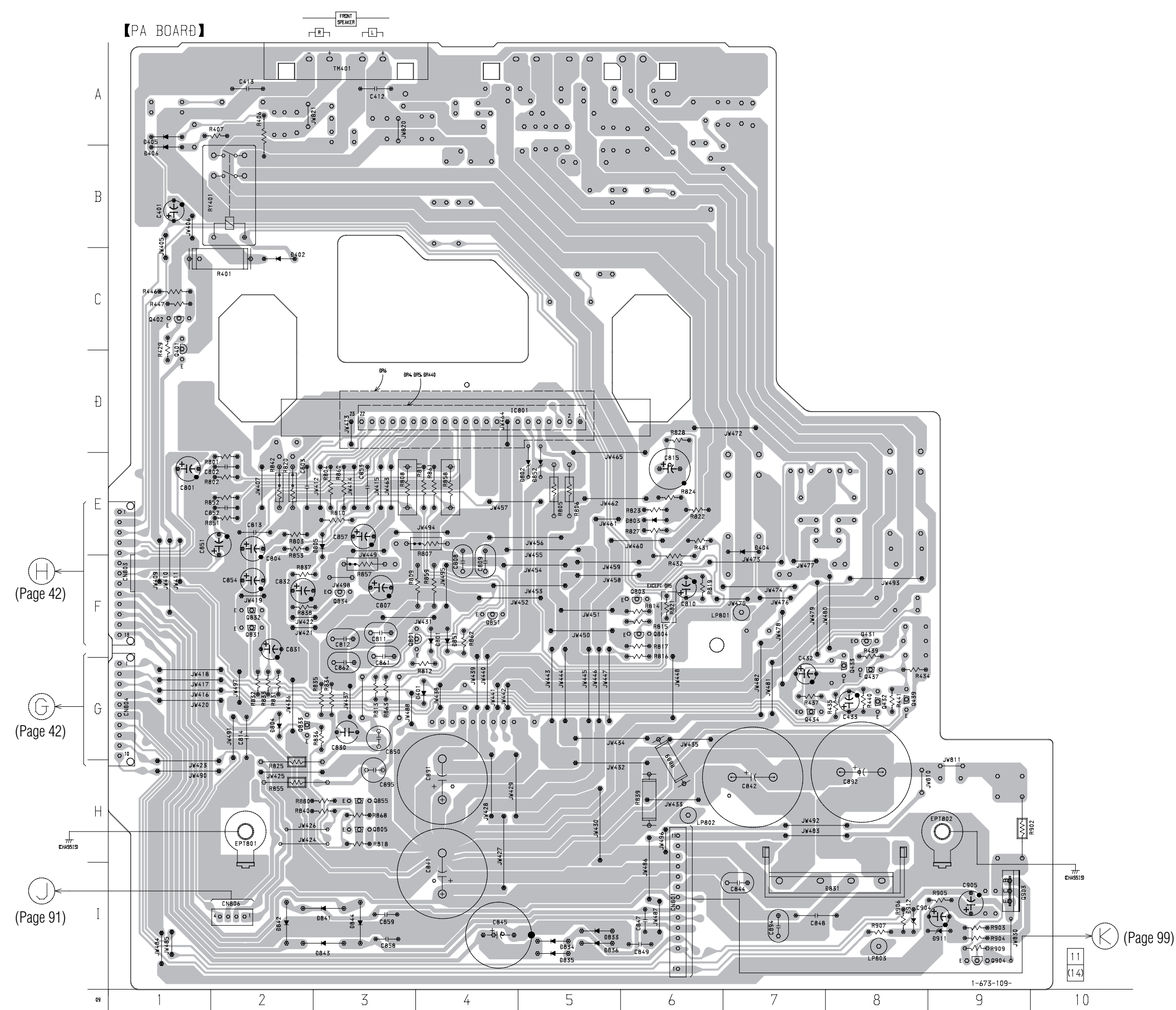


7-14. SCHEMATIC DIAGRAM – POWER (2/2) SECTION – (DR4, DR5, DR6, DR440 model)

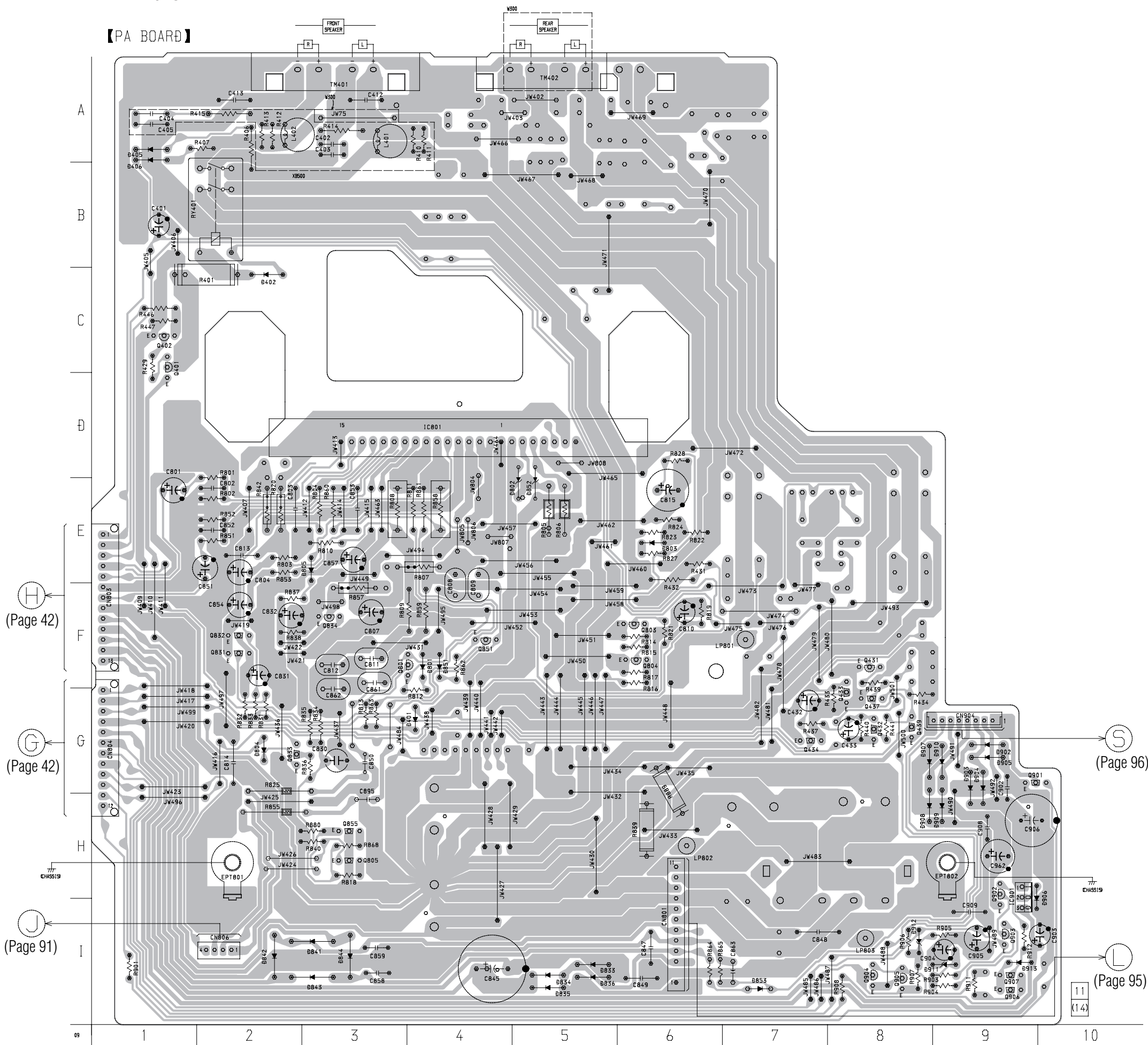
• See page 61 for Printed Wiring Board.



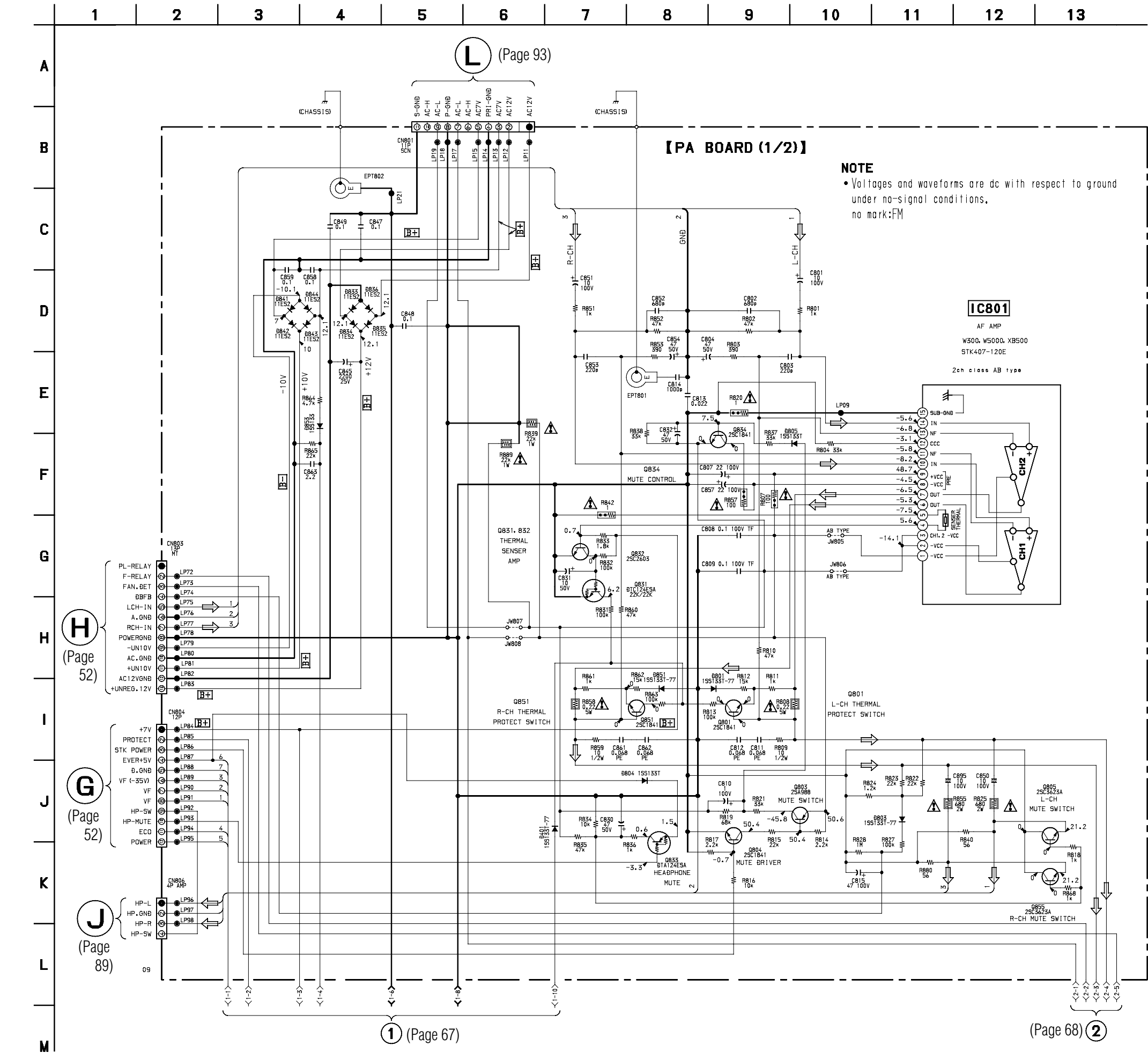
7-15. PRINTED WIRING BOARD – POWER SECTION – (DR4, DR5, DR6, DR440 model)
• See page 20 for Circuit Boards Location.



7-16. PRINTED WIRING BOARD – POWER SECTION – (W300, W5000, XB500 model)
• See page 20 for Circuit Boards Location.

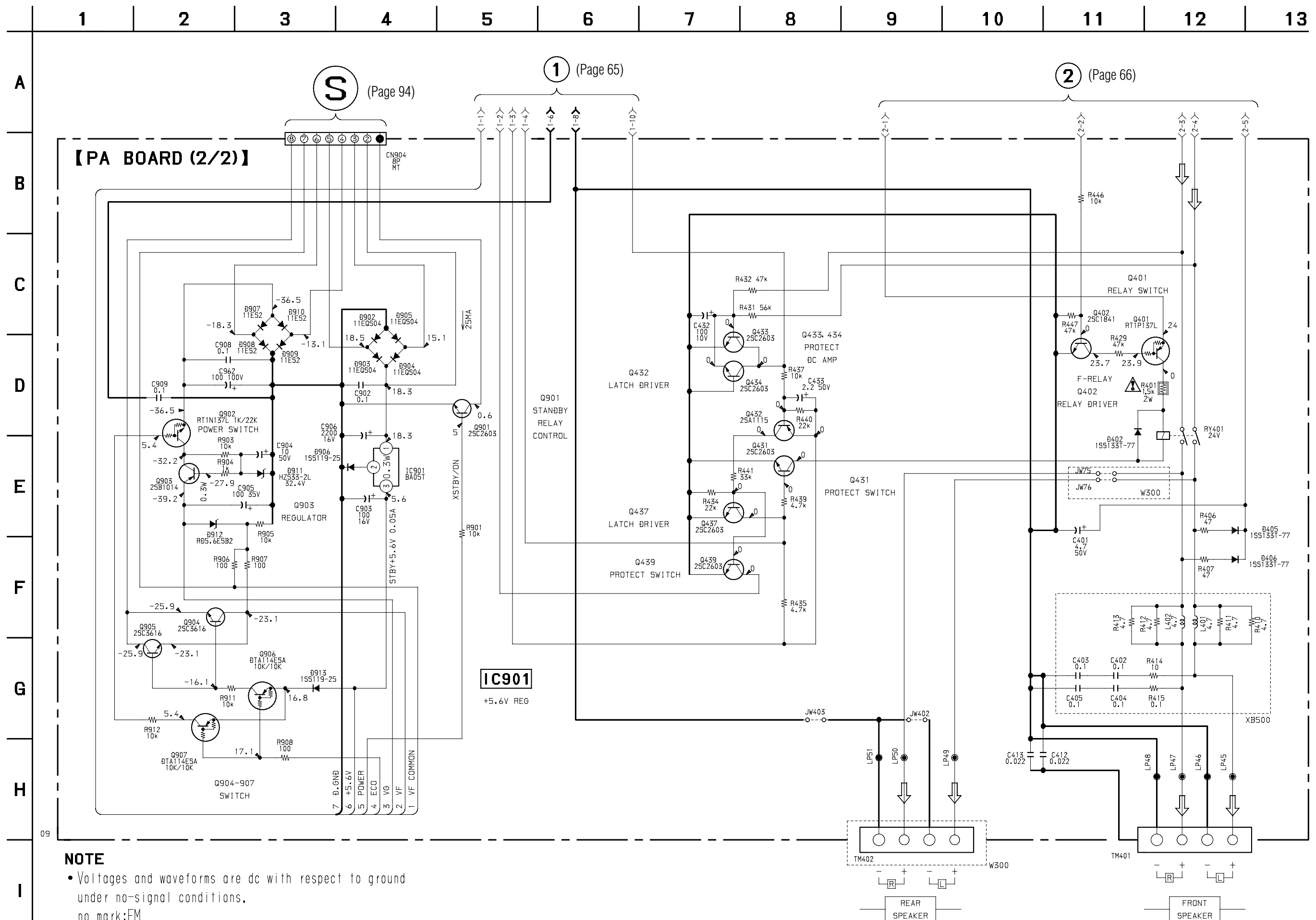


7-17. SCHEMATIC DIAGRAM – POWER (1/2) SECTION – (W300,W5000, XB500 model)
• See page 63 for Printed Wiring Board.



7-18. SCHEMATIC DIAGRAM – POWER (2/2) SECTION – (W300,W5000, XB500 model)

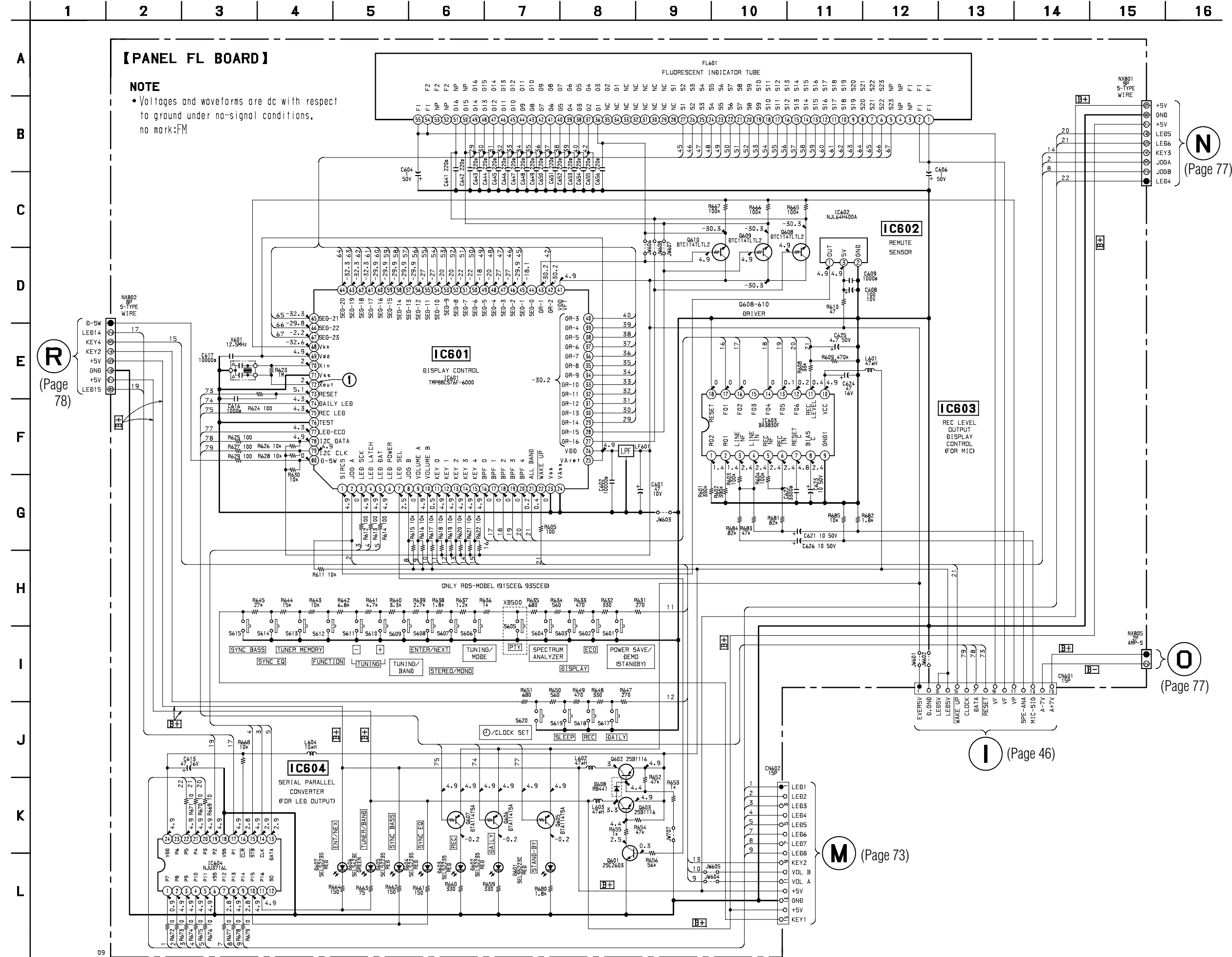
- See page 63 for Printed Wiring Board.



HCD-DR4/DR5/DR6/DR440/W300/W5000/XB500

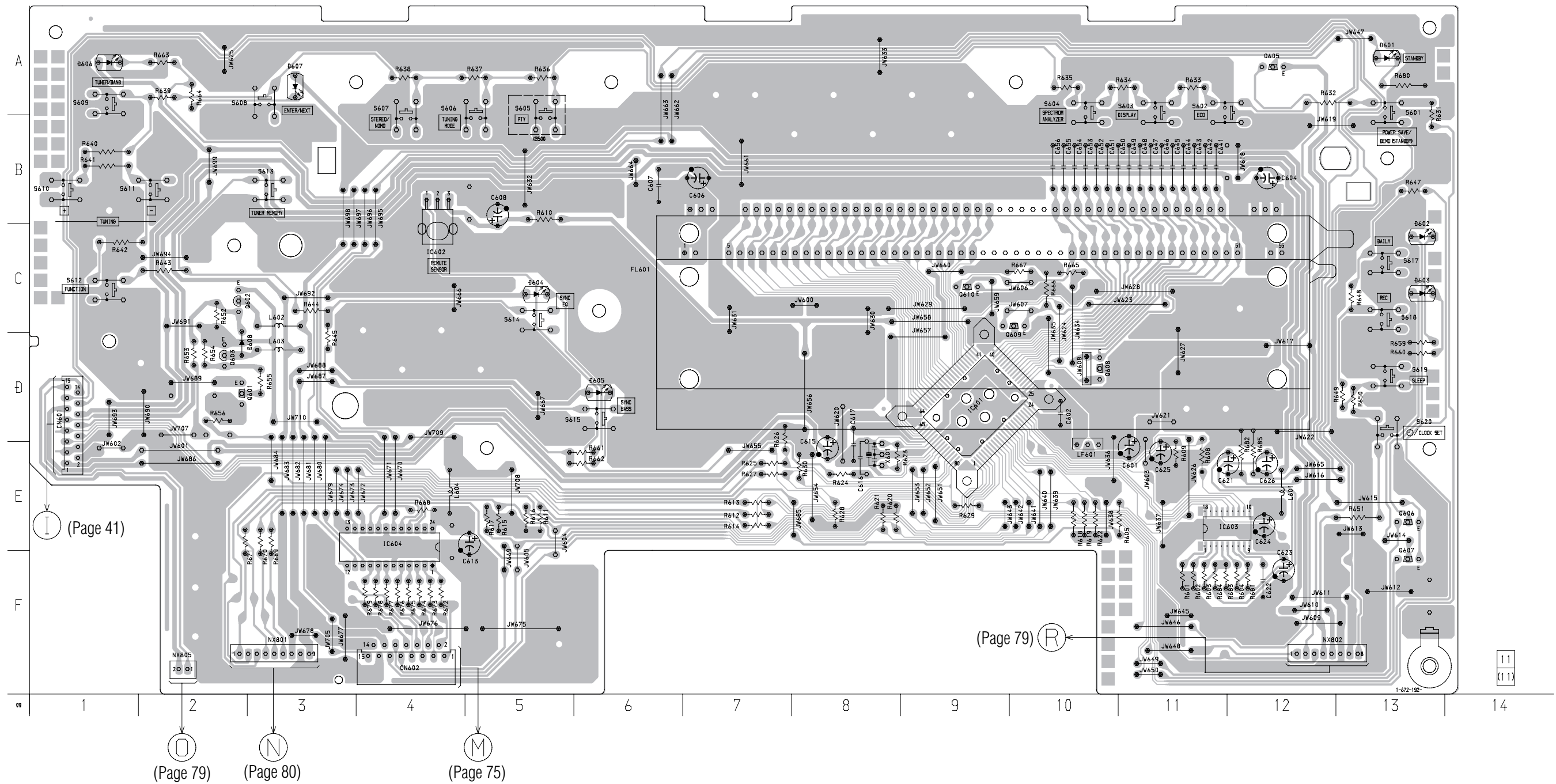
7-19. SCHEMATIC DIAGRAM – PANEL FL SECTION –

- See page 101 for IC Block Diagrams.
- See page 104 for IC Pin Functions.



7-20. PRINTED WIRING BOARD – PANEL FL SECTION –
• See page 20 for Circuit Boards Location.

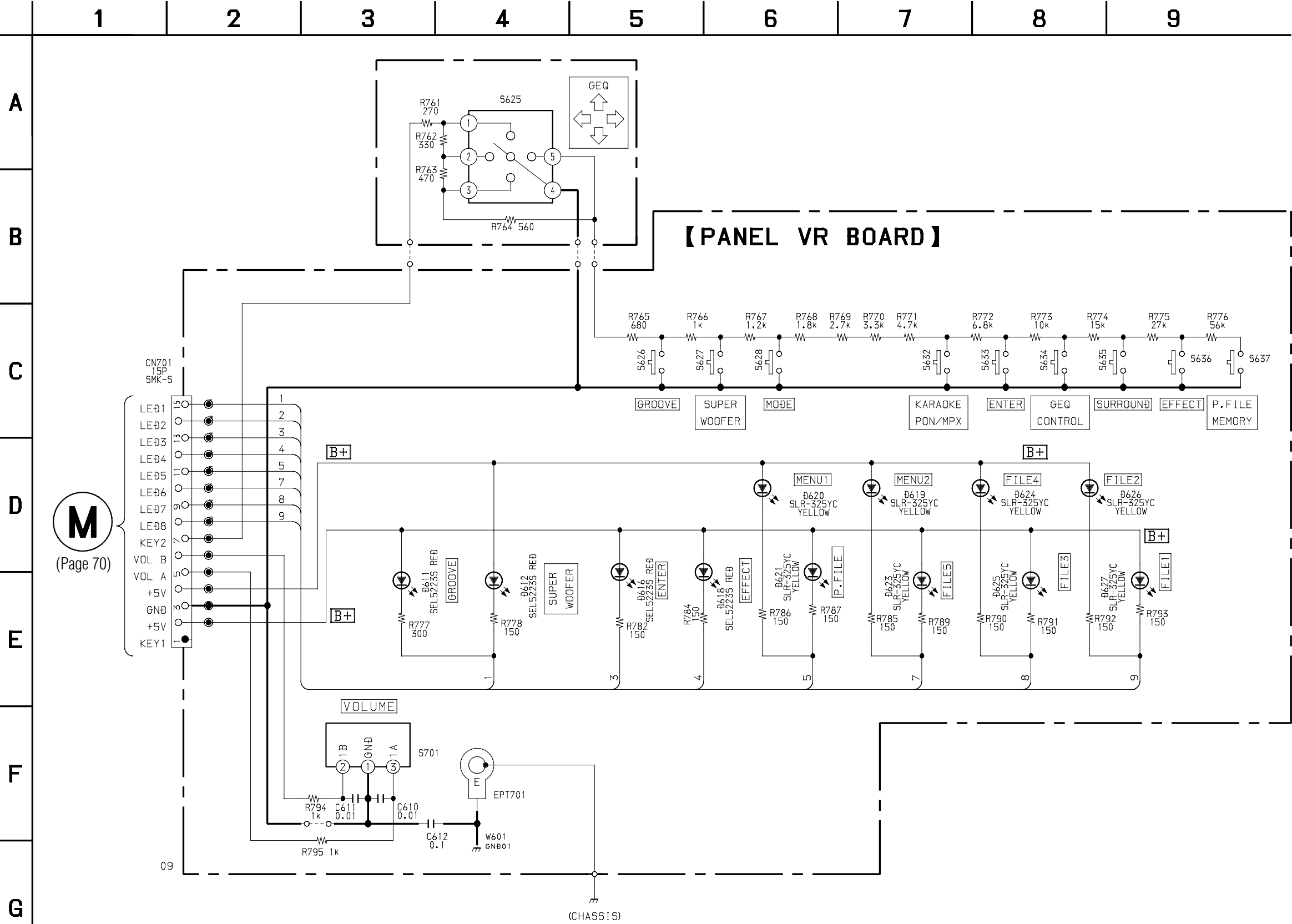
【PANEL FL BOARD】



- **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location	
D601	A-13	IC604	E-4	
D602	C-13			
D603	C-13		Q601	D-2
D604	C-5		Q602	C-2
D605	D-6		Q603	D-2
D606	A-1		Q605	A-12
D607	A-3		Q606	E-13
D608	D-2		Q607	F-13
		Q608	D-10	
IC601	D-9	Q609	C-10	
IC602	C-4	Q610	C-9	
IC603	E-12			

7-21. SCHEMATIC DIAGRAM – PANEL VR SECTION –
• See page 101 for IC Block Diagrams.



W601 EPT701 C612 S701 VOLUME R794 R795 C611 C610 JW701 JW732 R778 R777 B611 GROOVE S626 B612 SUPER WOOFER S627 JW736 JW735 JW754 JW757 JW758 JW759 JW740 R768 JW741 R767 R765 R766 JW704 JW702 JW705 JW742 JW743 JW744 JW745 R782 R789 R787 R785 R786 B619 MENU 2 B620 MENU 1 B621 P-FILE D623 FILE 5 D624 FILE 4 B625 FILE 3 B626 FILE 2 B627 FILE 1 R791 JW753 JW752 JW751 R792 R793 JW754 R774 R775 R776 R784 S634 S635 S636 S633 S632 KARAOKE PGM/MPX S637 P-FILE MEMORY B618 EFFECT SURROUND GEO CONTROL R771 R772 R773 R779 R780 R770 JW750 JW755 JW756 JW757 JW758 JW759 JW760 JW761 JW762 JW763 JW764 JW765 JW766 JW767 JW768 JW769 JW770 JW771 JW772 JW773 JW774 JW775 JW776 JW777 JW778 JW779 JW780 JW781 JW782 JW783 JW784 JW785 JW786 JW787 JW788 JW789 JW790 JW791 JW792 JW793 JW794 JW795 JW796 JW797 JW798 JW799 JW800 JW801 JW802 JW803 JW804 JW805 JW806 JW807 JW808 JW809 JW810 JW811 JW812 JW813 JW814 JW815 JW816 JW817 JW818 JW819 JW820 JW821 JW822 JW823 JW824 JW825 JW826 JW827 JW828 JW829 JW830 JW831 JW832 JW833 JW834 JW835 JW836 JW837 JW838 JW839 JW840 JW841 JW842 JW843 JW844 JW845 JW846 JW847 JW848 JW849 JW850 JW851 JW852 JW853 JW854 JW855 JW856 JW857 JW858 JW859 JW860 JW861 JW862 JW863 JW864 JW865 JW866 JW867 JW868 JW869 JW870 JW871 JW872 JW873 JW874 JW875 JW876 JW877 JW878 JW879 JW880 JW881 JW882 JW883 JW884 JW885 JW886 JW887 JW888 JW889 JW890 JW891 JW892 JW893 JW894 JW895 JW896 JW897 JW898 JW899 JW900 JW901 JW902 JW903 JW904 JW905 JW906 JW907 JW908 JW909 JW910 JW911 JW912 JW913 JW914 JW915 JW916 JW917 JW918 JW919 JW920 JW921 JW922 JW923 JW924 JW925 JW926 JW927 JW928 JW929 JW930 JW931 JW932 JW933 JW934 JW935 JW936 JW937 JW938 JW939 JW940 JW941 JW942 JW943 JW944 JW945 JW946 JW947 JW948 JW949 JW950 JW951 JW952 JW953 JW954 JW955 JW956 JW957 JW958 JW959 JW960 JW961 JW962 JW963 JW964 JW965 JW966 JW967 JW968 JW969 JW970 JW971 JW972 JW973 JW974 JW975 JW976 JW977 JW978 JW979 JW980 JW981 JW982 JW983 JW984 JW985 JW986 JW987 JW988 JW989 JW990 JW991 JW992 JW993 JW994 JW995 JW996 JW997 JW998 JW999 JW1000

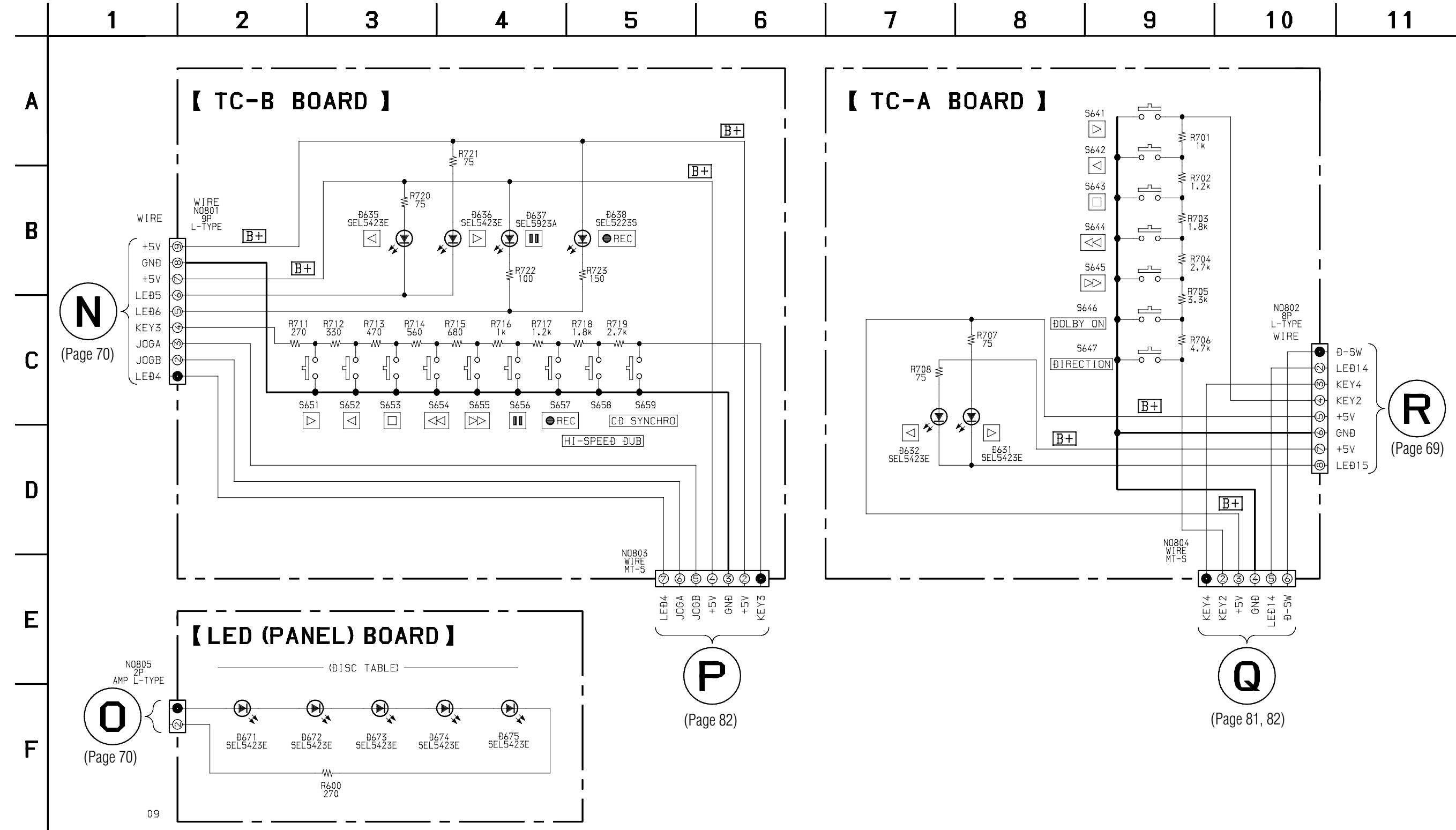
11
(11)

1-672-185-

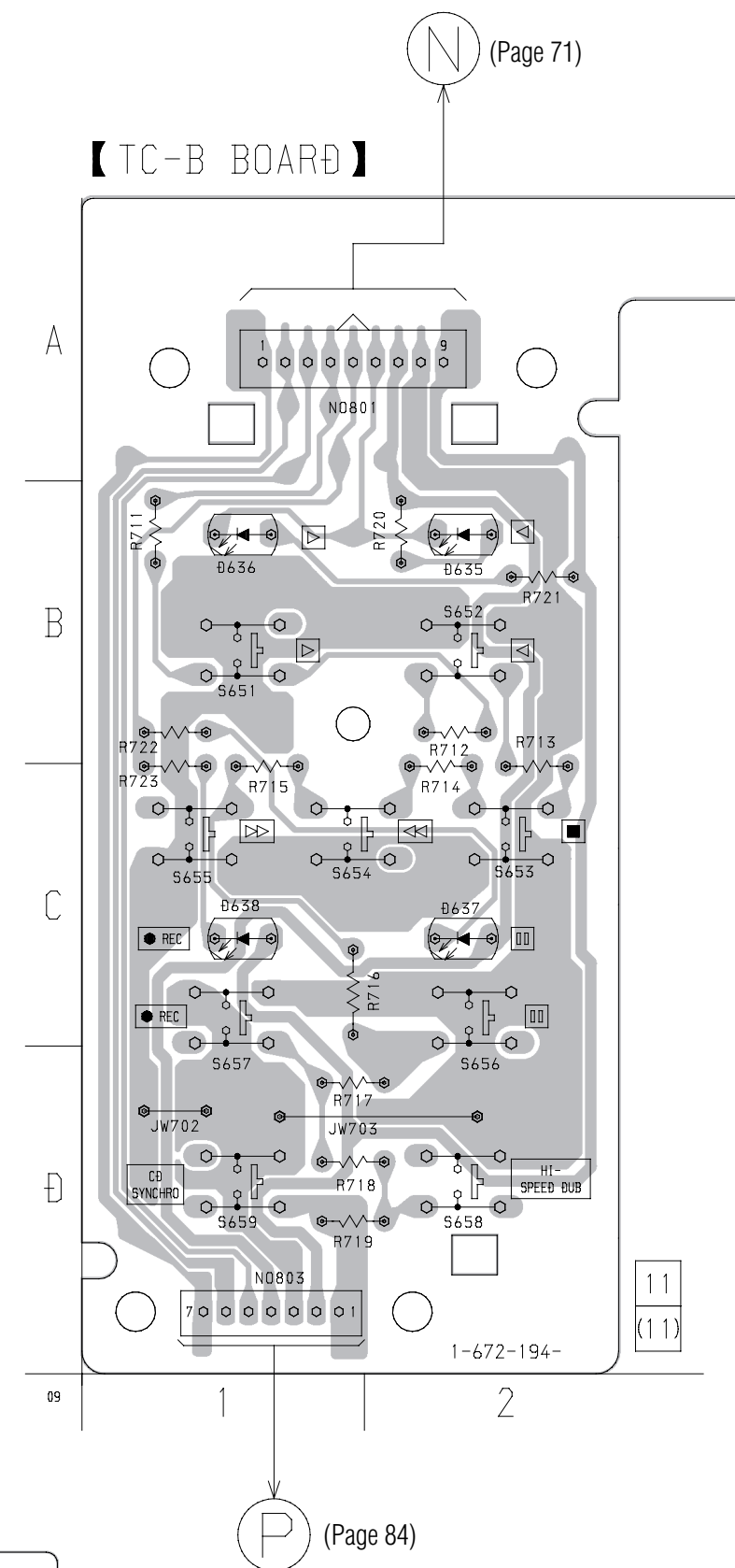
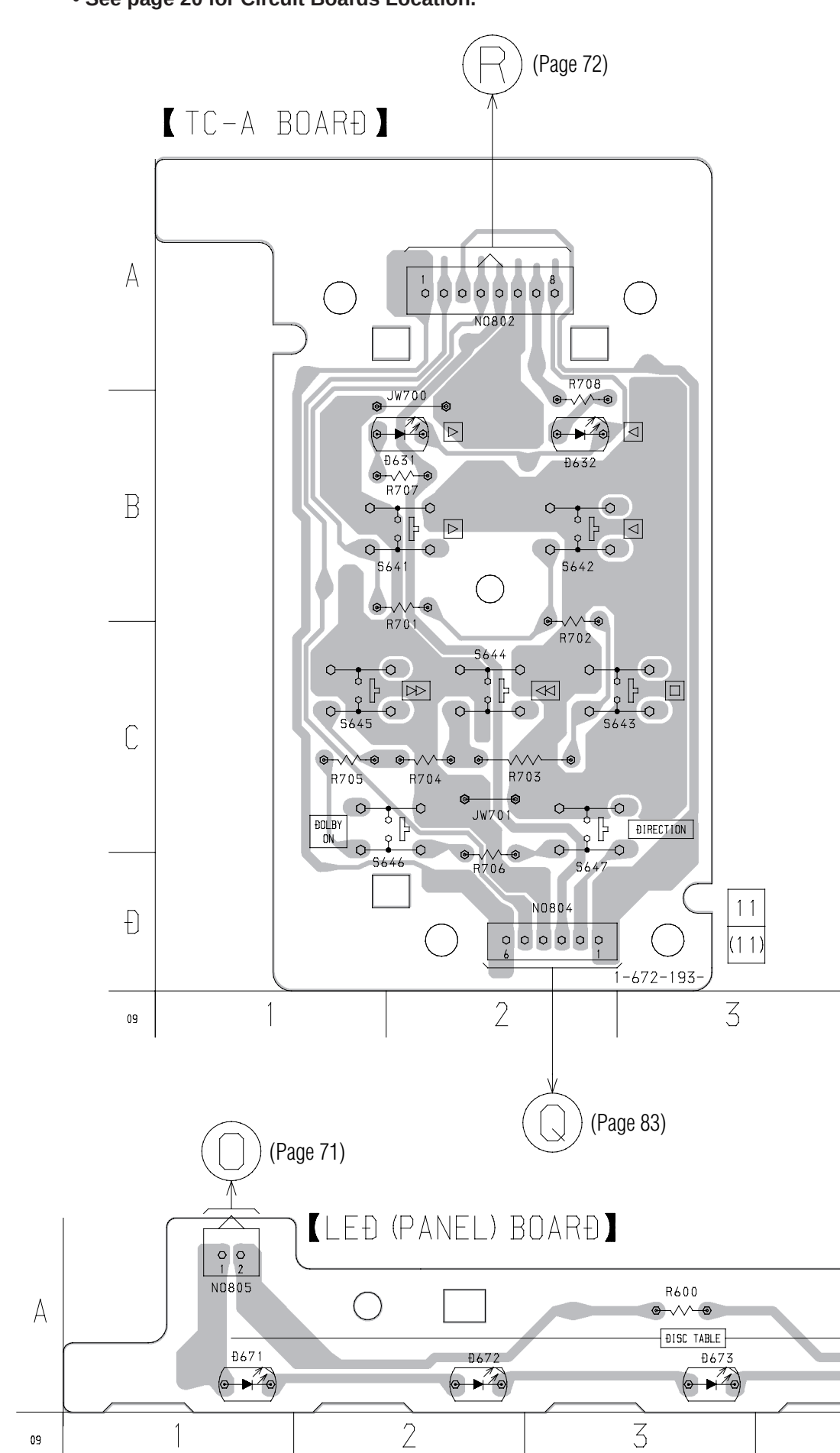
(Page 71)

Ref. No.	Location
D611	B-5
D612	C-4
D616	D-9
D618	D-11
D619	B-8
D620	B-8
D621	C-8
D623	C-9
D624	C-9
D625	C-10
D626	C-11
D627	C-11

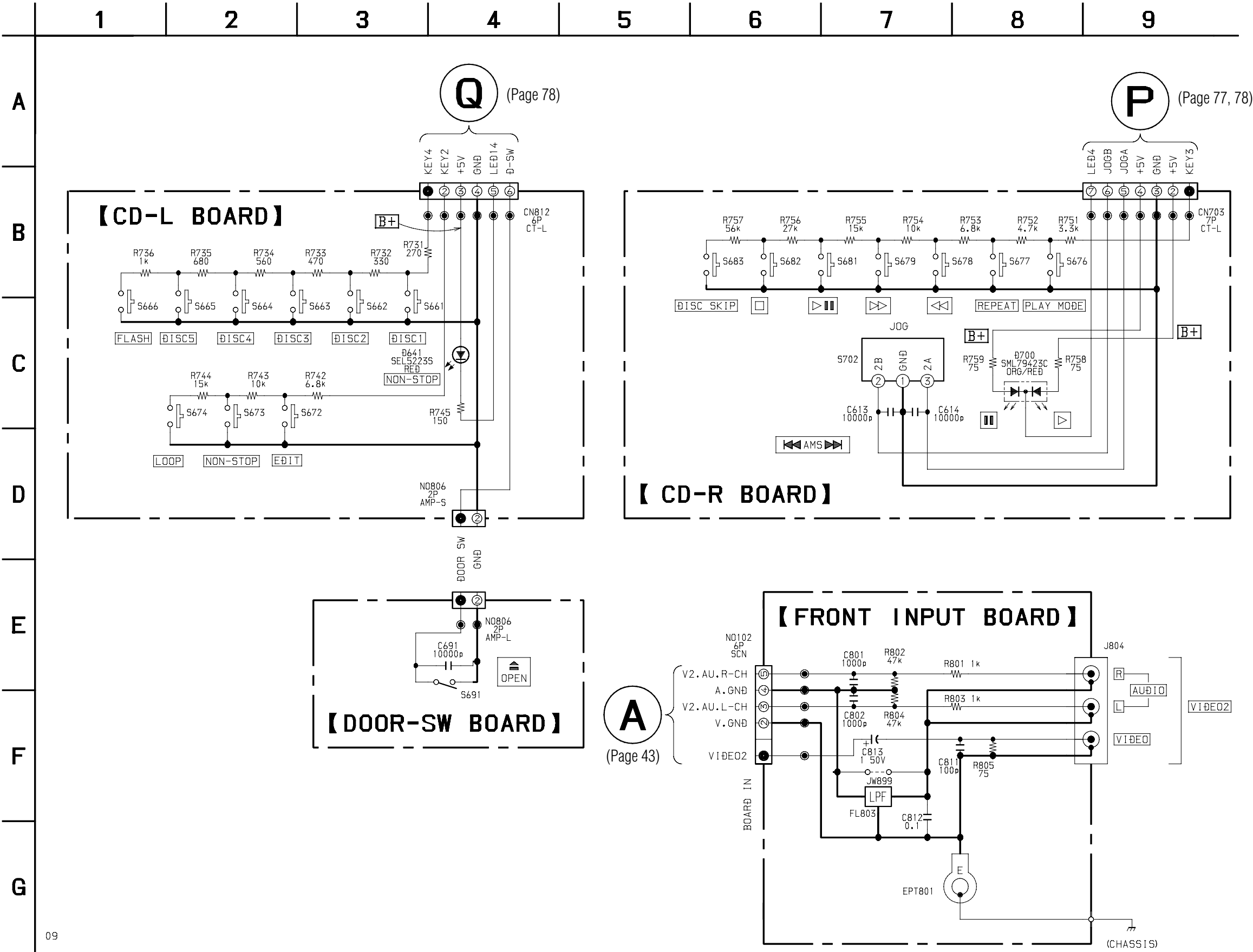
7-23. SCHEMATIC DIAGRAM – TC PANEL SECTION –



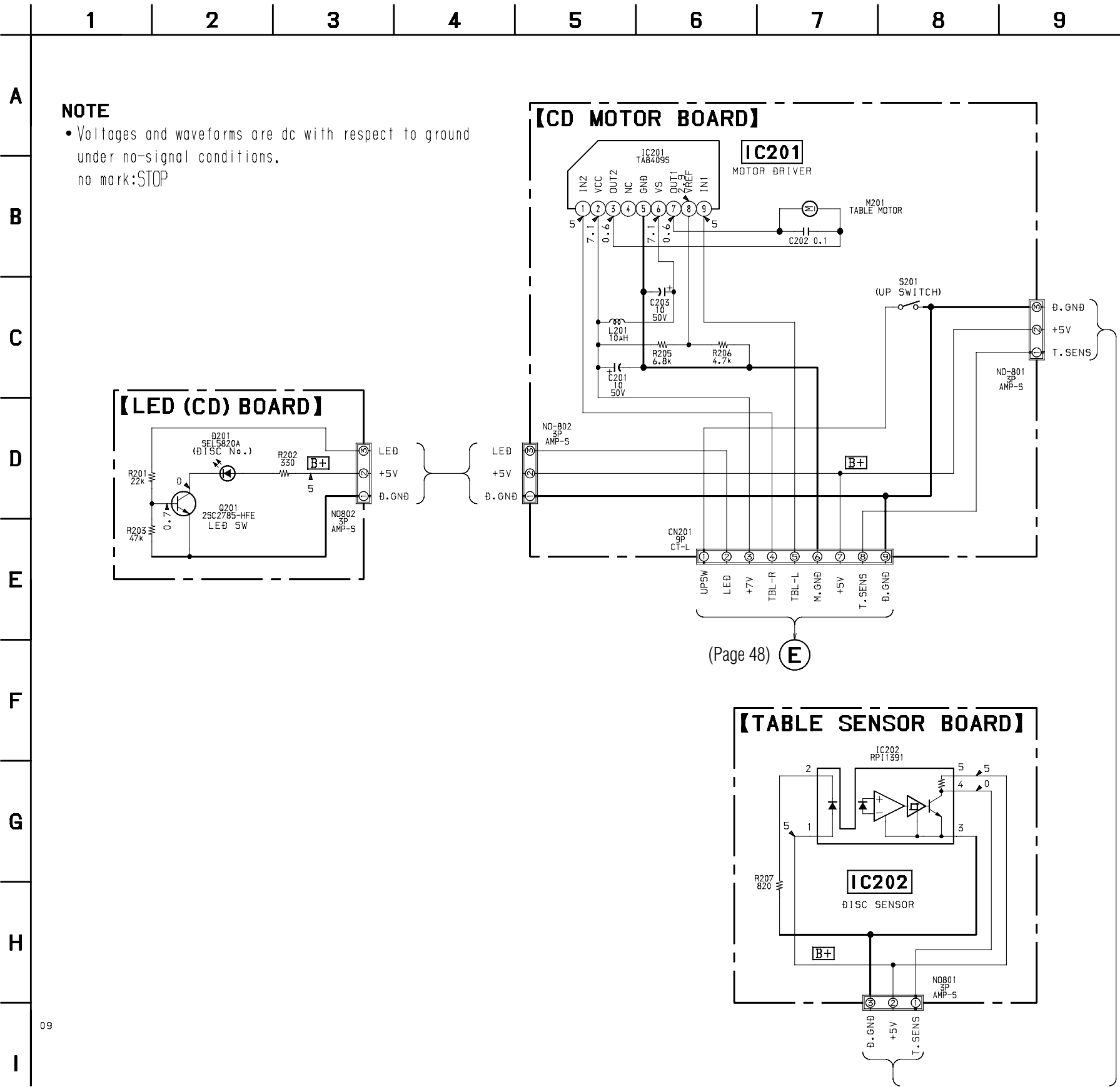
7-24. PRINTED WIRING BOARD – TC PANEL SECTION –
• See page 20 for Circuit Boards Location.



7-25. SCHEMATIC DIAGRAM – CD PANEL SECTION –

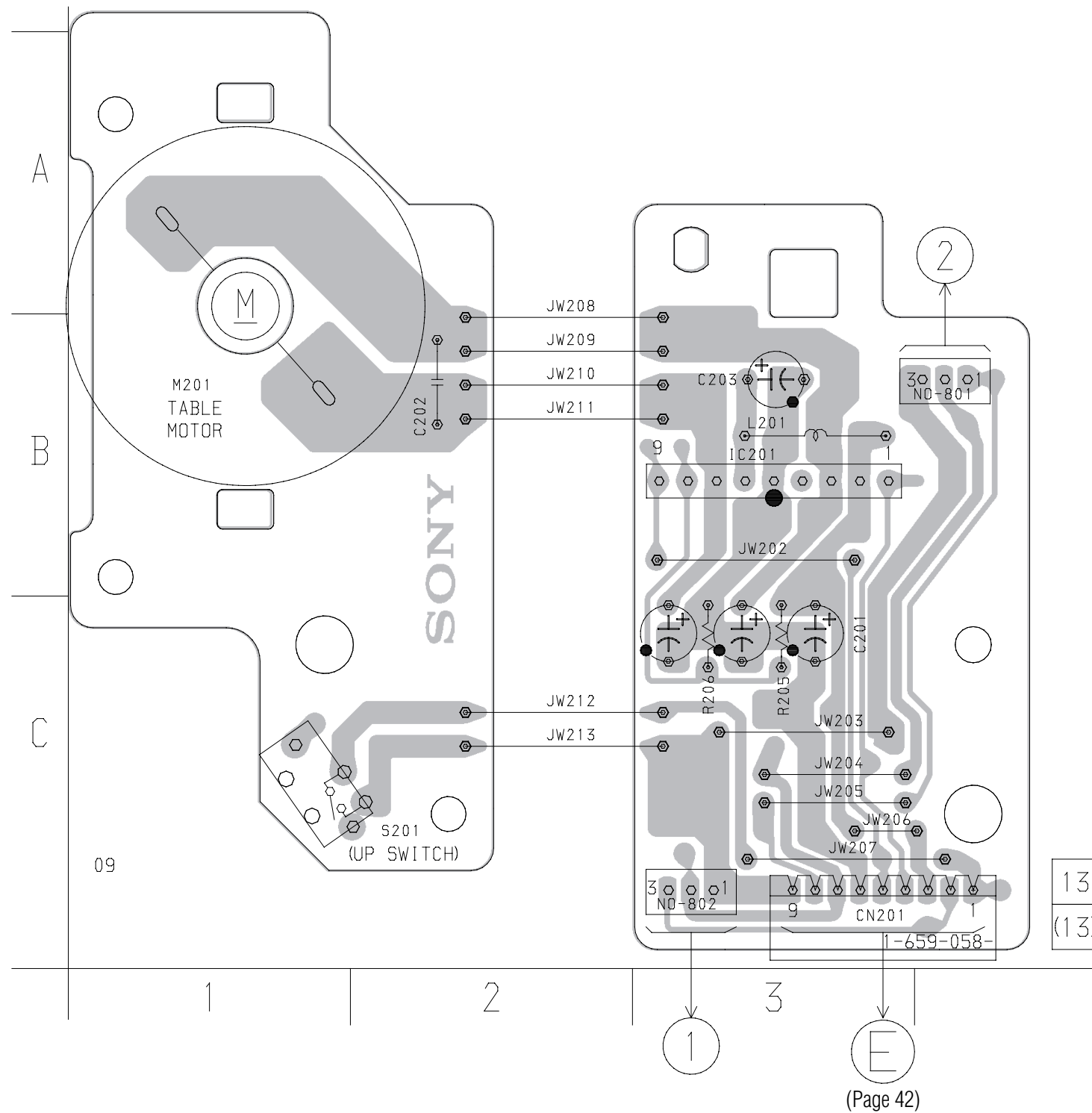


7-27. SCHEMATIC DIAGRAM – CD MOTOR SECTION –

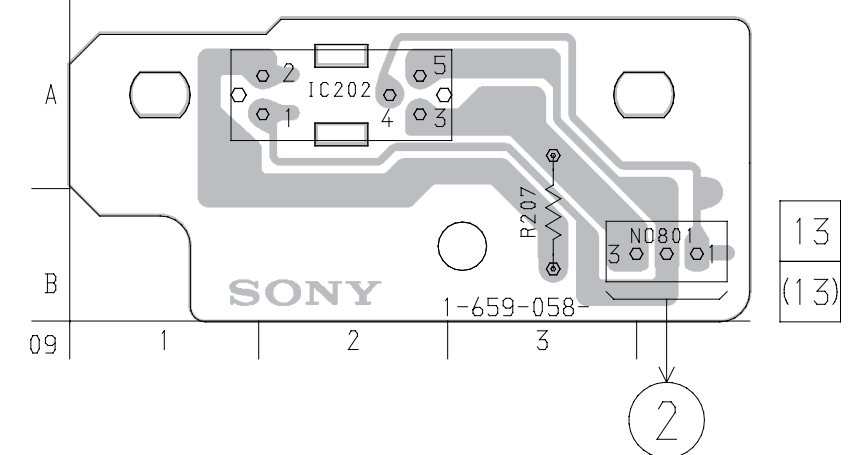


7-28. PRINTED WIRING BOARD – CD MOTOR SECTION –
 • See page 20 for Circuit Boards Location.

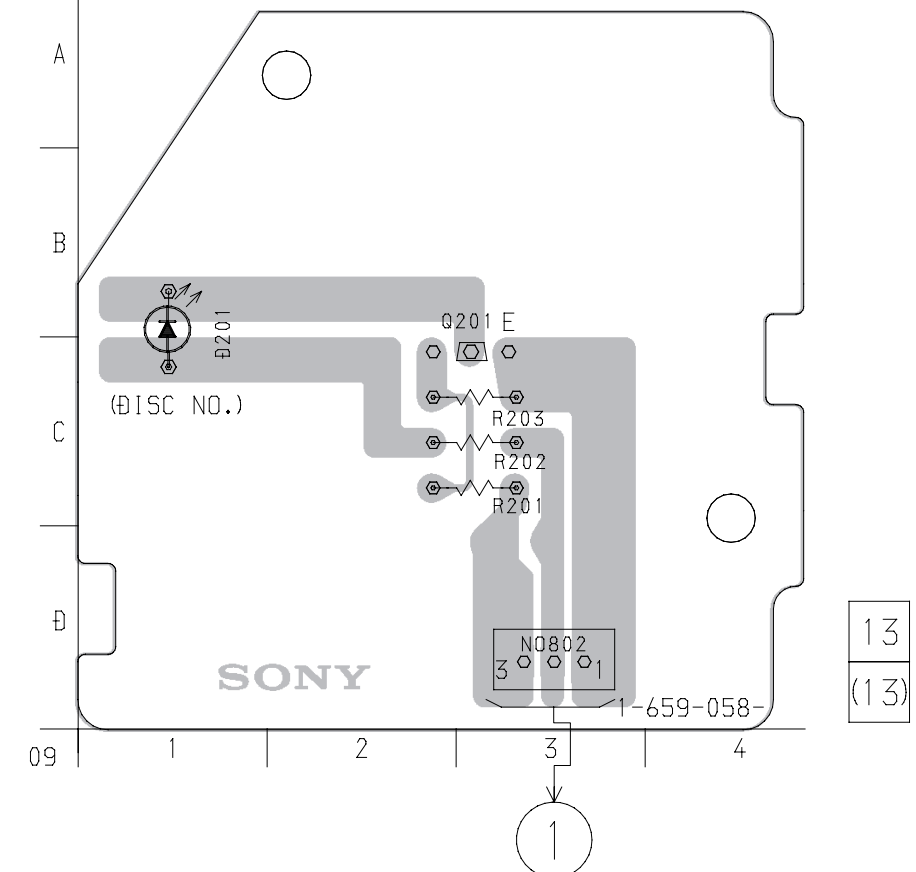
【 CD MOTOR BOARD 】



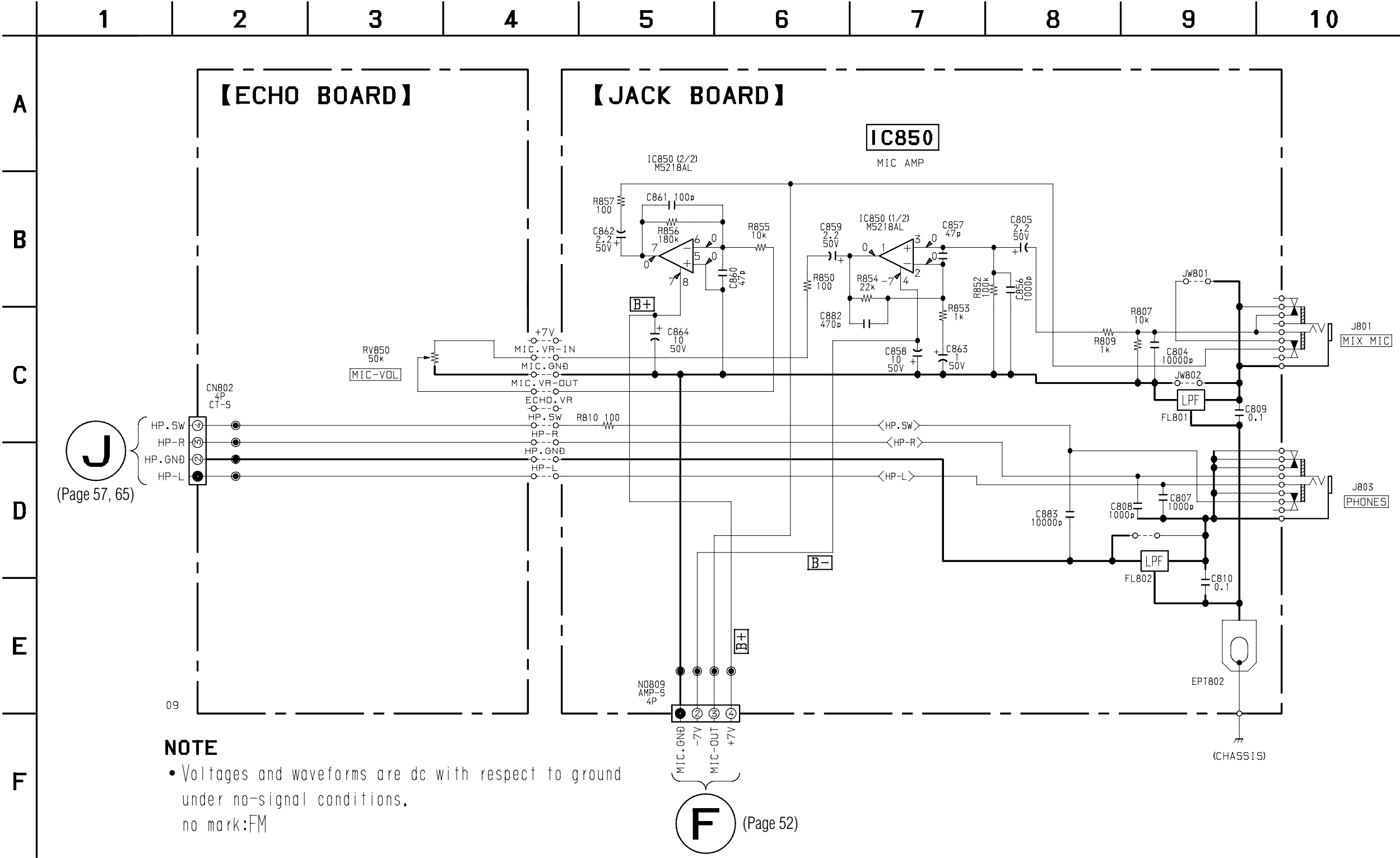
【 TABLE SENSOR BOARD 】



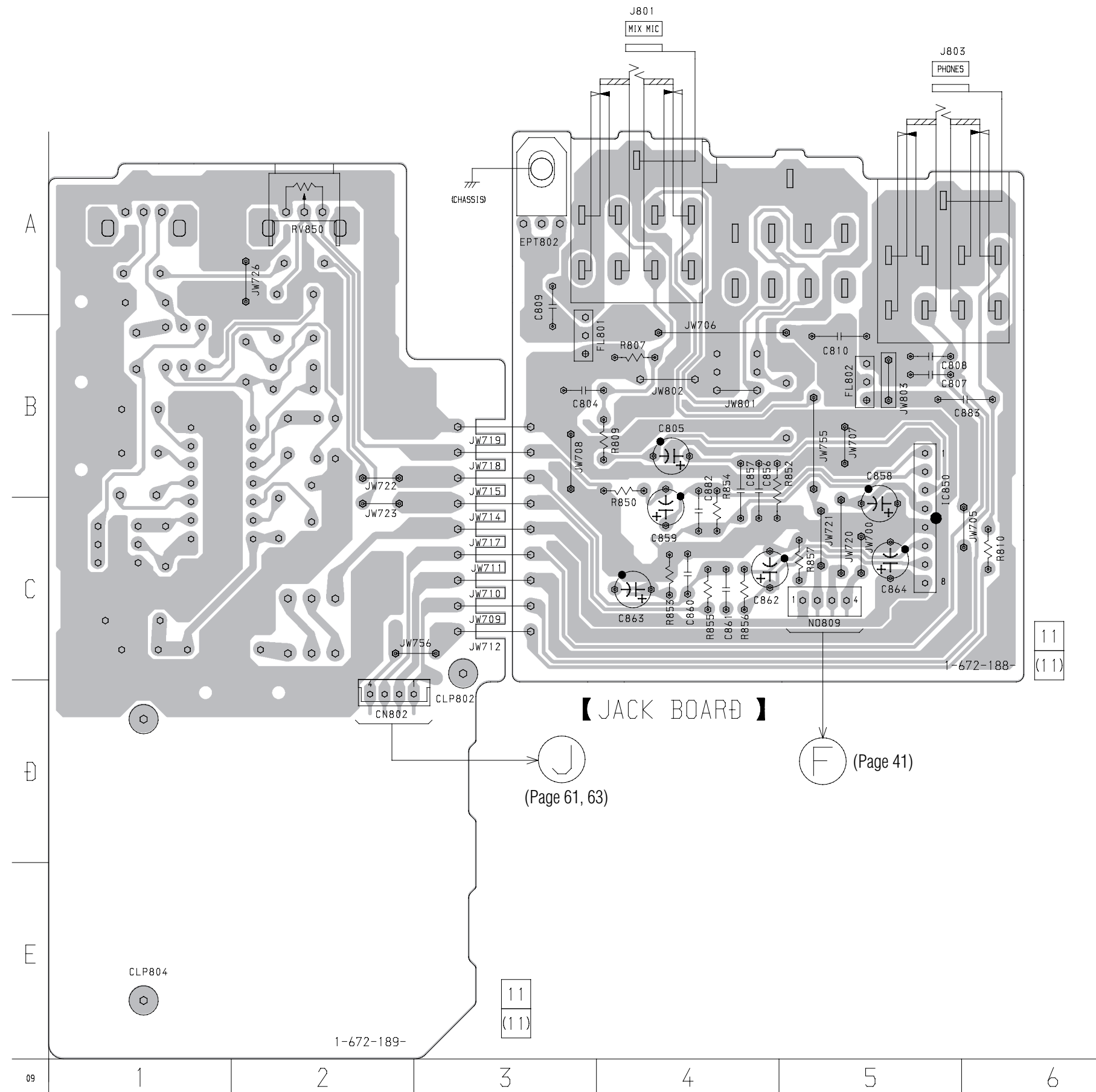
【 LED (CD) BOARD 】

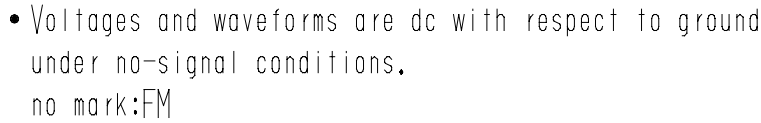


7-29. SCHEMATIC DIAGRAM – JACK SECTION –



7-30. PRINTED WIRING BOARD – JACK SECTION –
• See page 20 for Circuit Boards Location.

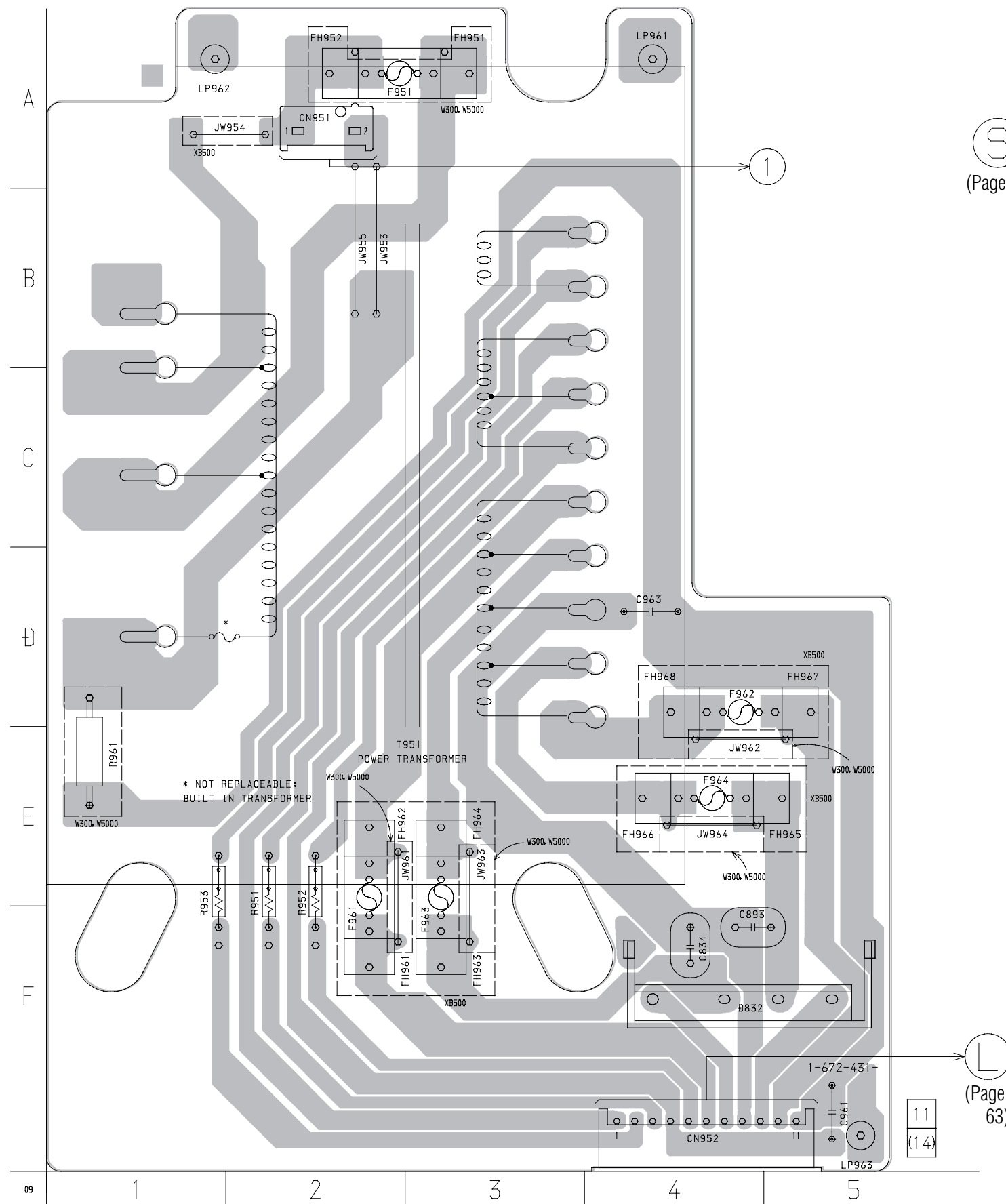




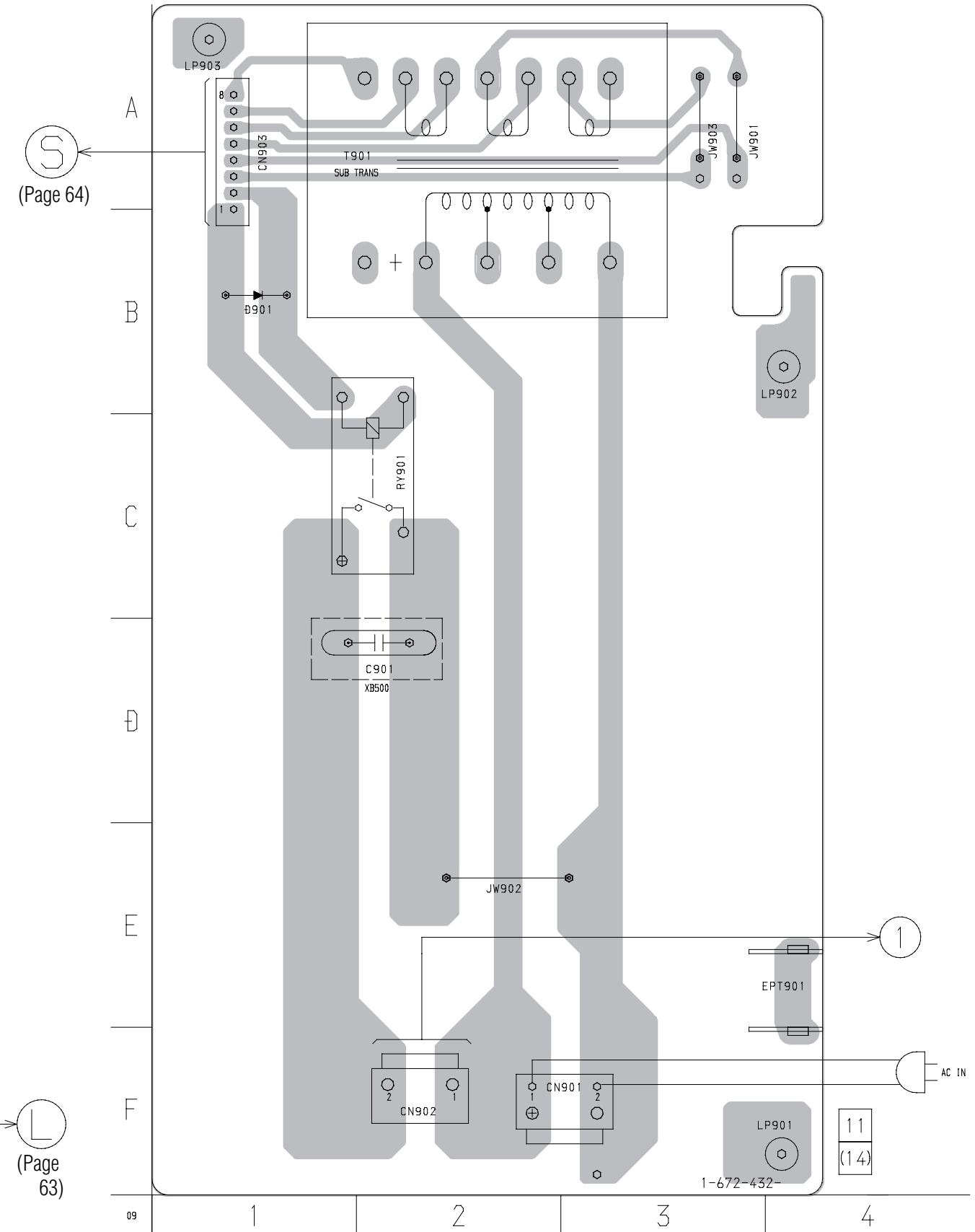
7-32. PRINTED WIRING BOARD – TRANS SECTION – (W300, W5000, XB500 model)

- See page 20 for Circuit Boards Location.

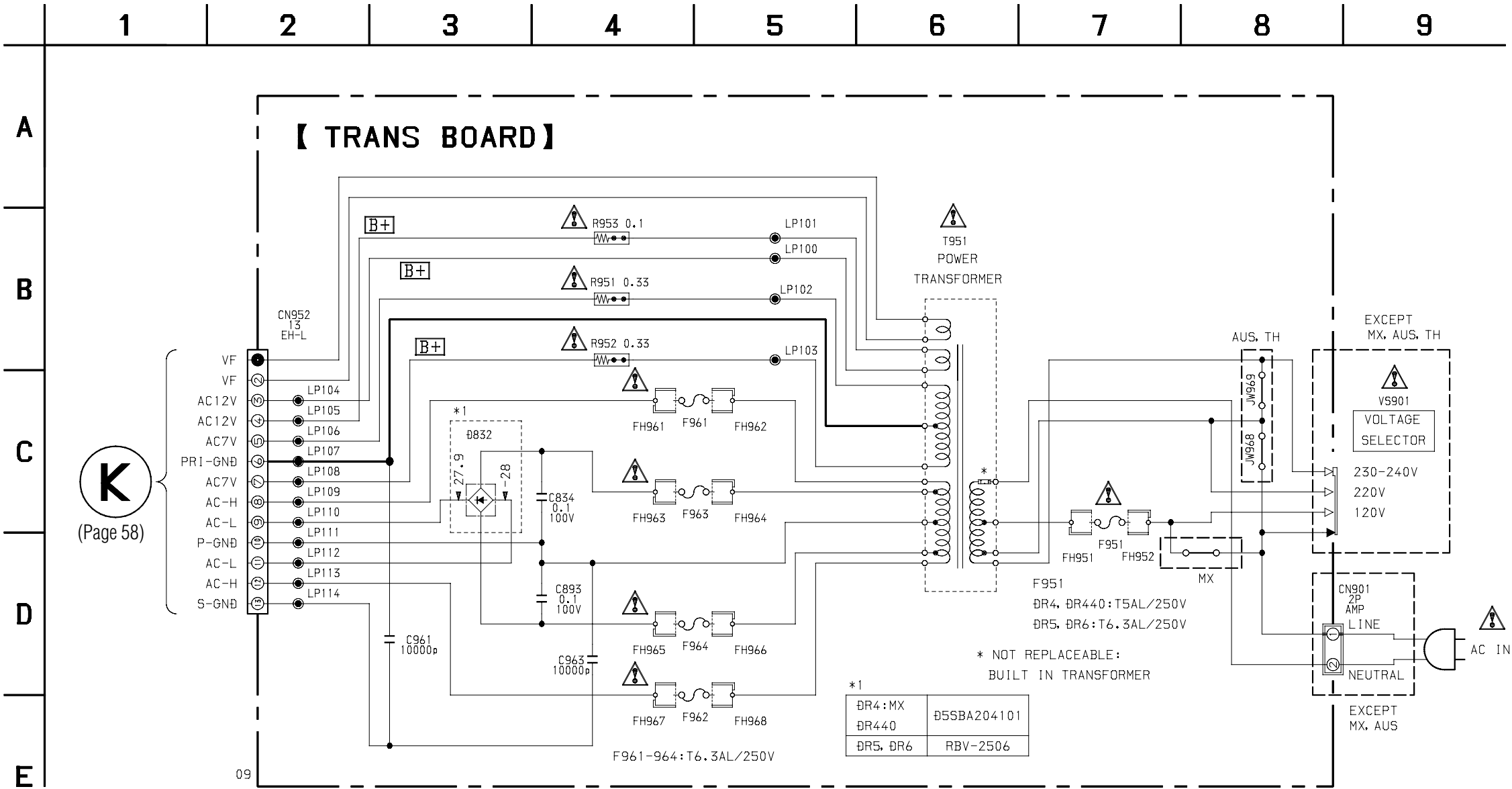
【TRANS BOARD】



【 SUB TRANS BOARD 】



7-33. SCHEMATIC DIAGRAM – TRANS SECTION – (DR4, DR5, DR6, DR440 model)

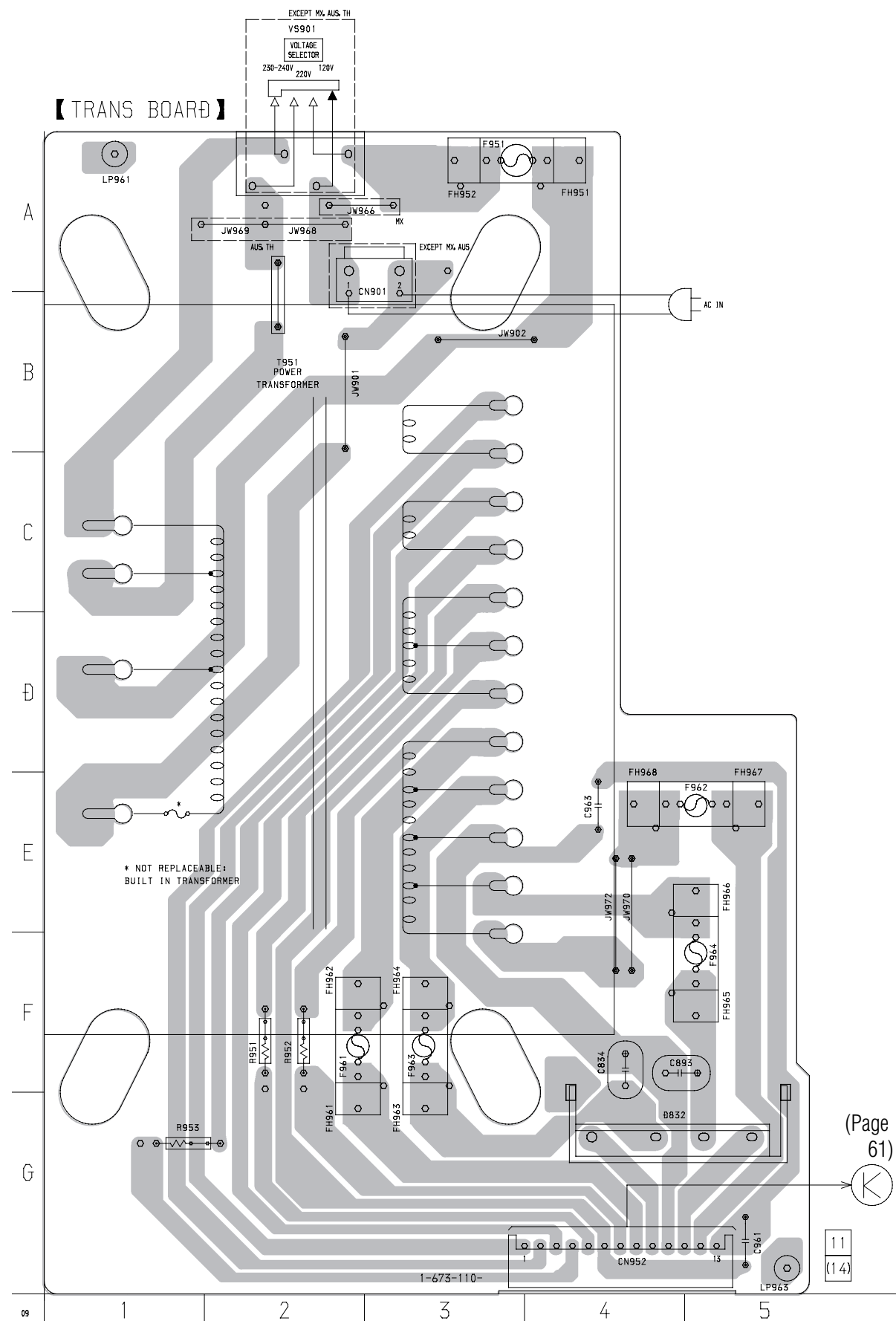


NOTE

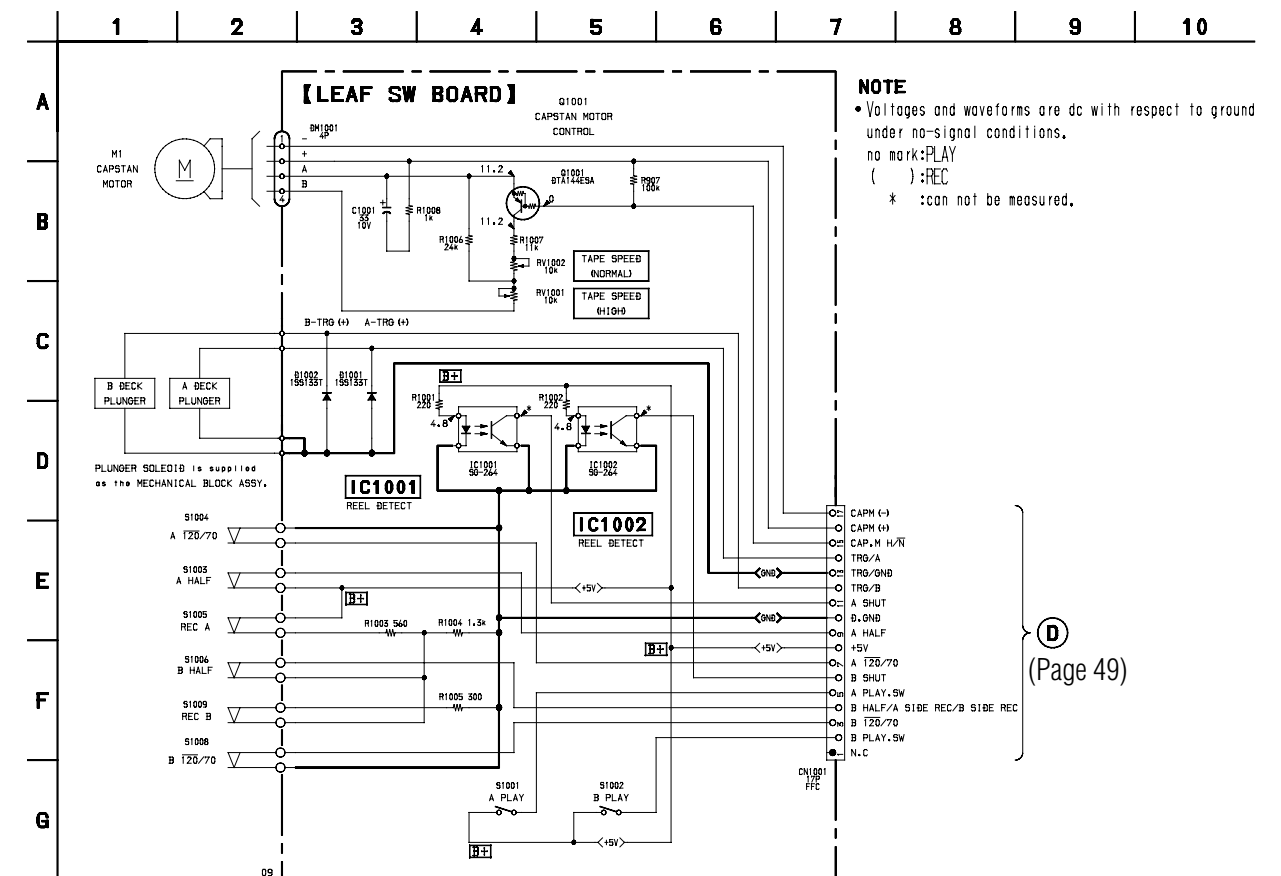
- Voltages and waveforms are dc with respect to ground under no-signal conditions.
no mark:FM

7-34. PRINTED WIRING BOARD – TRANS SECTION – (DR4, DR5, DR6, DR440 model)

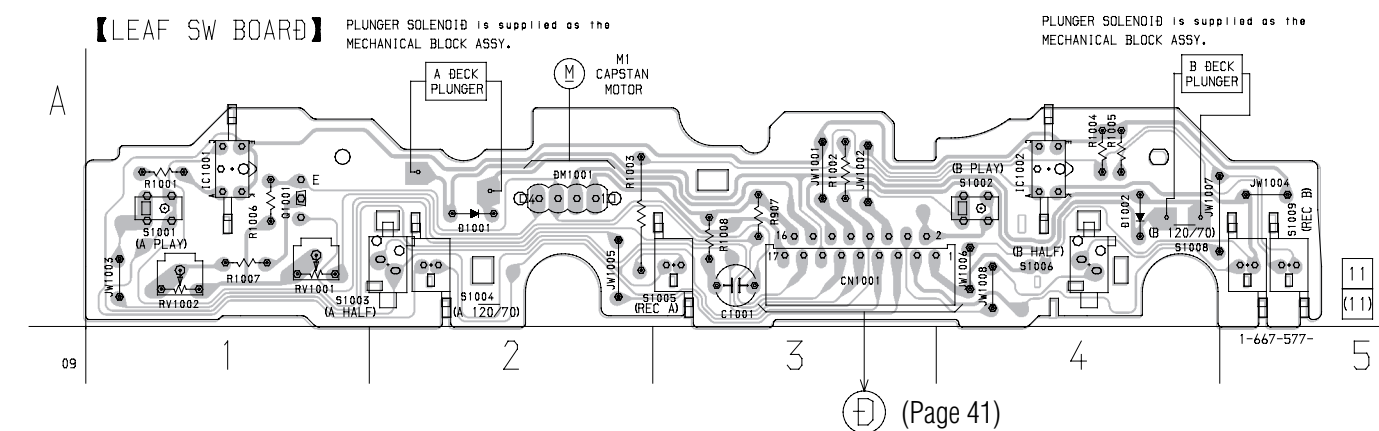
- See page 20 for Circuit Boards Location.



7-35. SCHEMATIC DIAGRAM – LEAF SW SECTION –



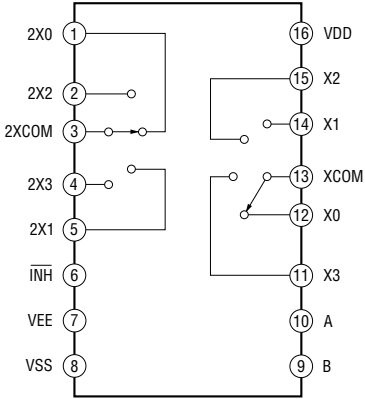
7-36. PRINTED WIRING BOARD – LEAF SW SECTION –



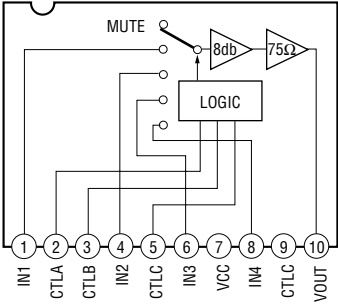
7-37. IC BLOCK DIAGRAMS

• MAIN (1/2) section

IC181 MC14052BF

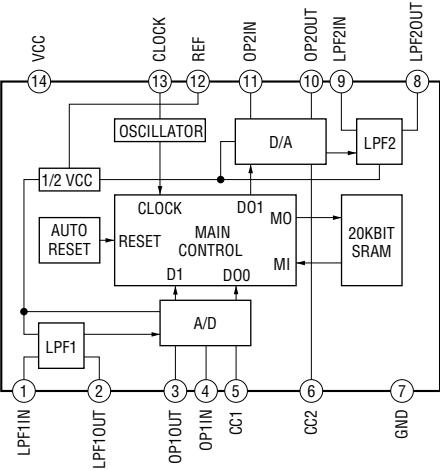


IC191 BA7615N



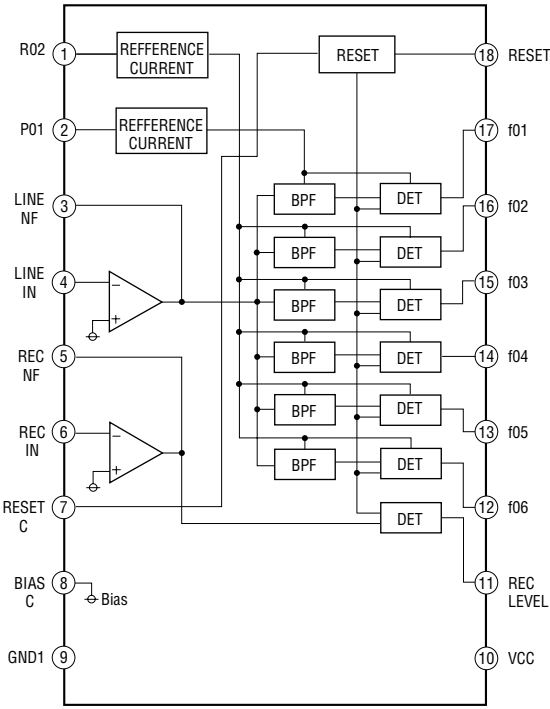
• PANEL VR section

IC851 M65850P

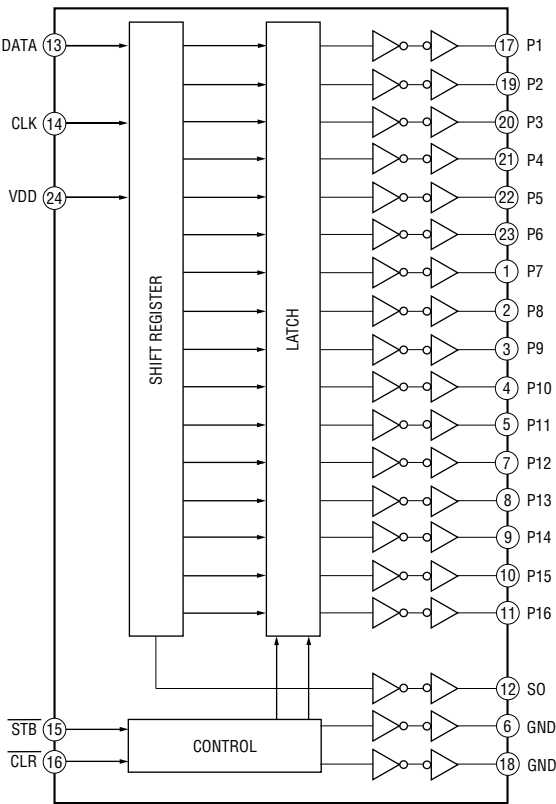


• PANEL FL section

IC603 BA3830F



IC604 NJU3716L



7-38. IC PIN FUNCTIONS

• IC501 MAIN CONTROL (M306622 MA-A01FP)

Pin No.	Pin Name	I/O	Function
1	POWER	O	Power amp ON/OFF signal output
2	POWER	O	Power ON/OFF signal output
3	F-RELAY	O	Front speaker relay control output
4	REAR-RELAY	O	Rear speaker relay control output (Not used)
5	CD-POWER	O	CD power on signal output
6	LINE-MUTE	O	Line mute signal output
7	DBFB-H/L	O	DBFB H/L select signal output
8	–	–	Connected to ground
9	–	–	Connected to ground
10	XC-IN	I	X'tal (32.768 KHz) (SUB CLOCK)
11	XC-OUT	O	
12	RESET	I	System reset signal input
13	X-OUT	O	X'tal (16MHz) (MAIN SYSTEM CLOCK)
14	VSS	–	Ground
15	X-IN	I	X'tal (16MHz) (MAIN SYSTEM CLOCK)
16	VDD	–	Power supply (+5V)
17	NMI	I	Not used
18	WAKE UP	I	WAKE UP signal input
19	SCOR	I	CD Q-data request signal input
20	RDS-INT	I	RDS data interrupt input
21	RDS-DATA	I	RDS data interrupt input
22	AC-CUT	I	AC cut ON (L)/OFF (H) check
23	PL-CLK	O	Clock output to pro-logic (Not used)
24	PL-DATA	O	Data output to pro-logic (Not used)
25	PL-LAT	O	Latch signal output to pro-logic (Not used)
26	TIMER LED	O	Not used
27	PROTECT	I	Speaker protect signal input
28	V MUTE	O	Video mute signal output
29	IIC-CLK	O	I ² C SCL
30	IIC-DATA	O	I ² C SDA
31	–	–	Not used
32	SQ-DATA	I	Subcode Q data clock input (CD data)
33	SQ-CLK	I	Subcode Q data clock input (CD data clock)
34	SW-MODE	O	SW-MODE music/movie select signal output
35	CD-DATA	O	CD data output
36	H/P IN	I	Head phone detect
37	CD-CLK	O	CD clock output
38	493-LAT	O	Latch signal output for IC101 (M62493FP)
39	CLOCK-OUT	O	Clock out signal check
40	NO-USE	–	Not used
41	NO-USE	–	Not used
42	FL OFF	O	Fluorescent indicator tube filament on/off signal output
43	STBY RELAY	O	Main POWER on/off signal output
44	BASS FREQ	O	FREQ high/low signal output (Not used)
45	FUNC SEL 1	O	Function select signal output
46	FUNC SEL 0	O	Function select signal output
47	493-DATA	O	Data signal output for IC101 (M62493FP)
48	493-CLK	O	Clock signal output for IC101 (M62493FP)
49	ST-MUTE	O	Tuner mute signal output

Pin No.	Pin Name	I/O	Function
50	STEREO	I	Stereo detection for tuner
51	TUNED	I	Tuned detection for tuner
52	ST-CE	O	Tuner chip enable output
53	ST-DOUT	O	Tuner data output
54	ST-DIN	I	Tuner data input
55	ST-CLK	O	Tuner clock output
56	SENS	I	BD Condition signal input
57	HOLD	O	MODE signal output
58	XLT	O	CD latch signal output
59	XRST	O	CD reset signal output
60	DISC-SENS	I	Slit sensor of disc table input (Connected to ground)
61	T-SENS	I	CD table detection signal input
62	VDD	–	Power supply (+5V)
63	TBL-L	O	Table motor control output
64	VSS	I	Ground
65	TBL-R	O	Table motor control output
66	LOAD-OUT	O	Loading motor control signal output (Not used)
67	LOAD-IN	O	
68	ENC 3/UP-SW	I	Disc tray address detect encoder input
69	ENC 2/DISC-LED	I	
70	ENC 1	I	(Connected to ground)
71	OUT-OPEN	O	(Connected to ground) Loading out detection signal output
72	B-TRG	O	B deck trigger motor control output
73	A-TRG	O	A deck trigger motor control output
74	CAP-M-COT2	O	Capstan motor REW/FWD/STOP signal output
75	CAP-M-COT1	O	Capstan motor REW/FWD/STOP signal output
76	CAP-M-H/L	O	Capstan motor High/Low speed select signal output
77	AMS-IN	I	AMS signal input
78	TC-MUTE	O	TC line mute ON/OFF selection output
79	R/PB/PAS	O	REC/PB/PASS selection output
80	NR-ON/OFF	O	DOLBY NR ON/OFF signal output
81	REC-MUTE	O	REC mute ON/OFF selection output
82	BIAS	O	Bias ON/OFF signal output
83	EQ-H/N	O	Equalizer High/Normal select output
84	PB-A/B	O	PB A deck/B deck select output
85	ALC	O	ALC ON/OFF output signal
86	B-PLAY-SW	I	B deck play detect
87	A-PLAY-SW	I	A deck play detect
88	A-HALF	I	A Deck half detector signal input
89	B-HALF	I	B Deck half detector signal input
90	B-SHUT	I	B Deck reel pulse detector
91	A-SHUT	I	A Deck reel pulse detector
92	SOFT-TEST	O	Software test port (Not used)
93	HP-MUTE	O	Head phone mute signal output
94	KEY/CD-ADJ	I	KEY (use the jig)/CD adjust point port
95	MODEL IN	I	MODEL input
96	AVSS	–	Analog ground
97	SPEC-IN	I	Specifications input
98	VREF	I	Analog reference voltage input
99	AVCC	–	Analog power supply (+5V)
100	TC-RELAY	O	REC/PB head selection output for IC602

• IC601 DISPLAY CONTROL (TMP88CS76F-6000)

Pin No.	Pin Name	I/O	Function
1	SIRCS	I	Remote commander signal input
2	JOG A	I	Rotary encoder (S702) pulse input
3	LED SCK	O	LED clock signal output
4	LED LATCH	O	LED latch signal output
5	LED DAT	O	LED serial data output
6	LED POWER	–	Not used
7	LED SEL	O	LED select signal output
8	JOG B	I	Rotary encoder (S702) pulse input
9	VOLUME A	I	Rotary encoder (S701) pulse input
10	VOLUME B	I	
11 to 15	KEY 0 to KEY 4	I	Key input
16 to 20	BPF 0 to BPF 4	I	Rec level signal input
21	ALL BAND	O	Rec level signal output for auto DBDF
22	WAKE UP	O	Gradation right/WAKE UP signal output
23	Vss	–	Ground
24	VAss	–	
25	VAref	I	Analog reference voltage input
26	VDD	–	Power supply (+5V)
27 to 40	GR 3 to GR 16	O	FL gride signal output
41	VDD VFT	–	Power supply (+5V) for VFT
42, 43	GR 1, GR 2	O	FL gride signal output
44	SEG 0	O	FL segment signal output (Not used)
45 to 67	SEG 1 to SEG 23	O	FL segment signal output
68	Vkk	–	Power supply (-25V) for FL segment signal output
69	Vdd	–	Power supply (+5V)
70	X in	I	X'tal (12.5MHz)
71	Vss	–	Ground
72	X out	O	X'tal (12.5MHz)
73	RESET	I	Reset signal input from main controller
74	DAILY LED	O	LED driver output
75	REC LED	O	
76	TEST	I	Connected ground
77	LED-ECO	O	LED driver output
78	I ² C DATA	I	I ² C SDA input from master controller
79	I ² C CLK	I	I ² C SCL input from master controller
80	D-SW	I	Door switch signal input

SECTION 8 EXPLODED VIEWS

NOTE:

- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

• Abbreviation

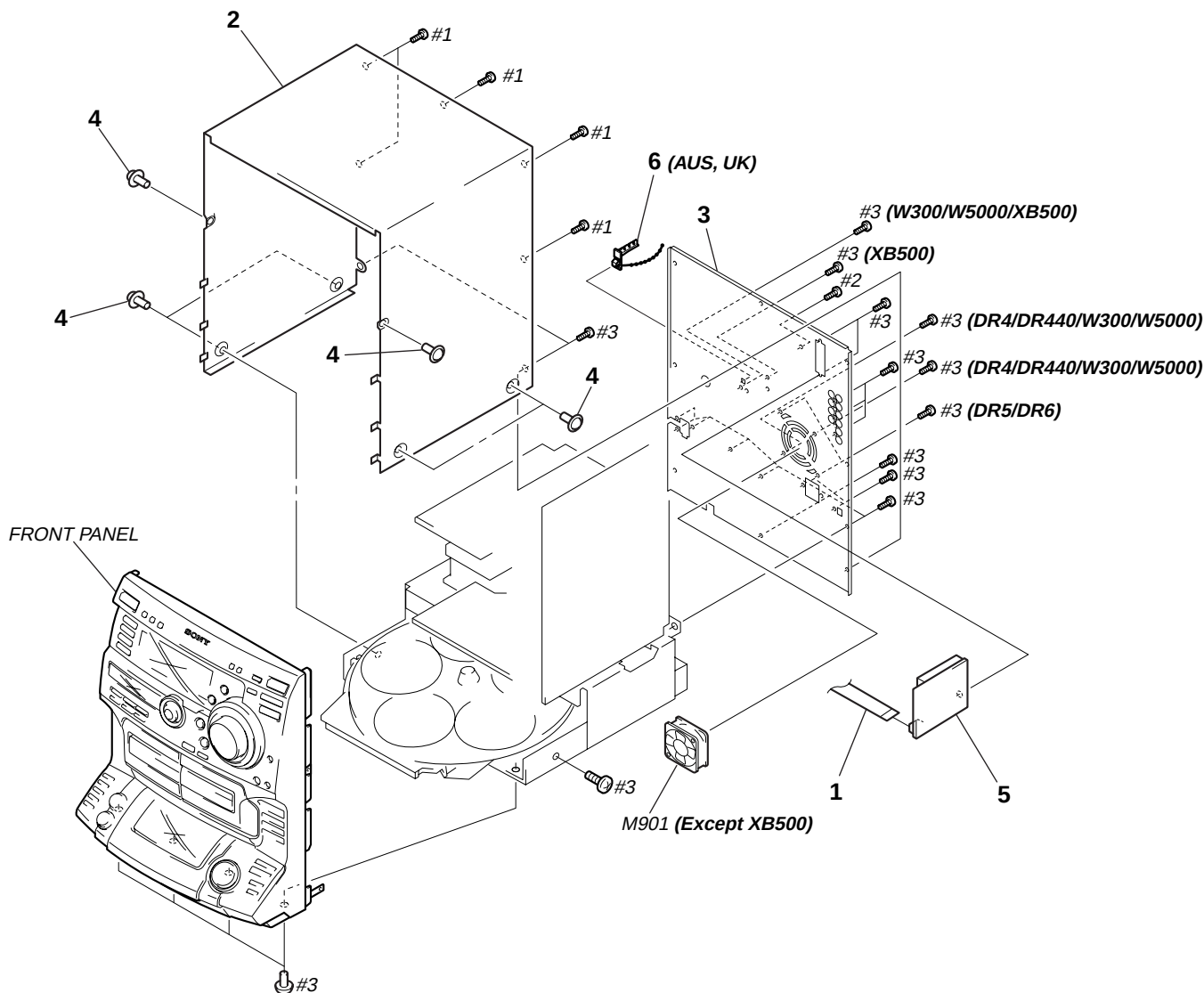
CND : Canadian model
EA : Saudi Arabia model
MX : Mexican model
SP : Singapore model
MY : Malaysia model
AR : Argentine model
TH : Thailand model

The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

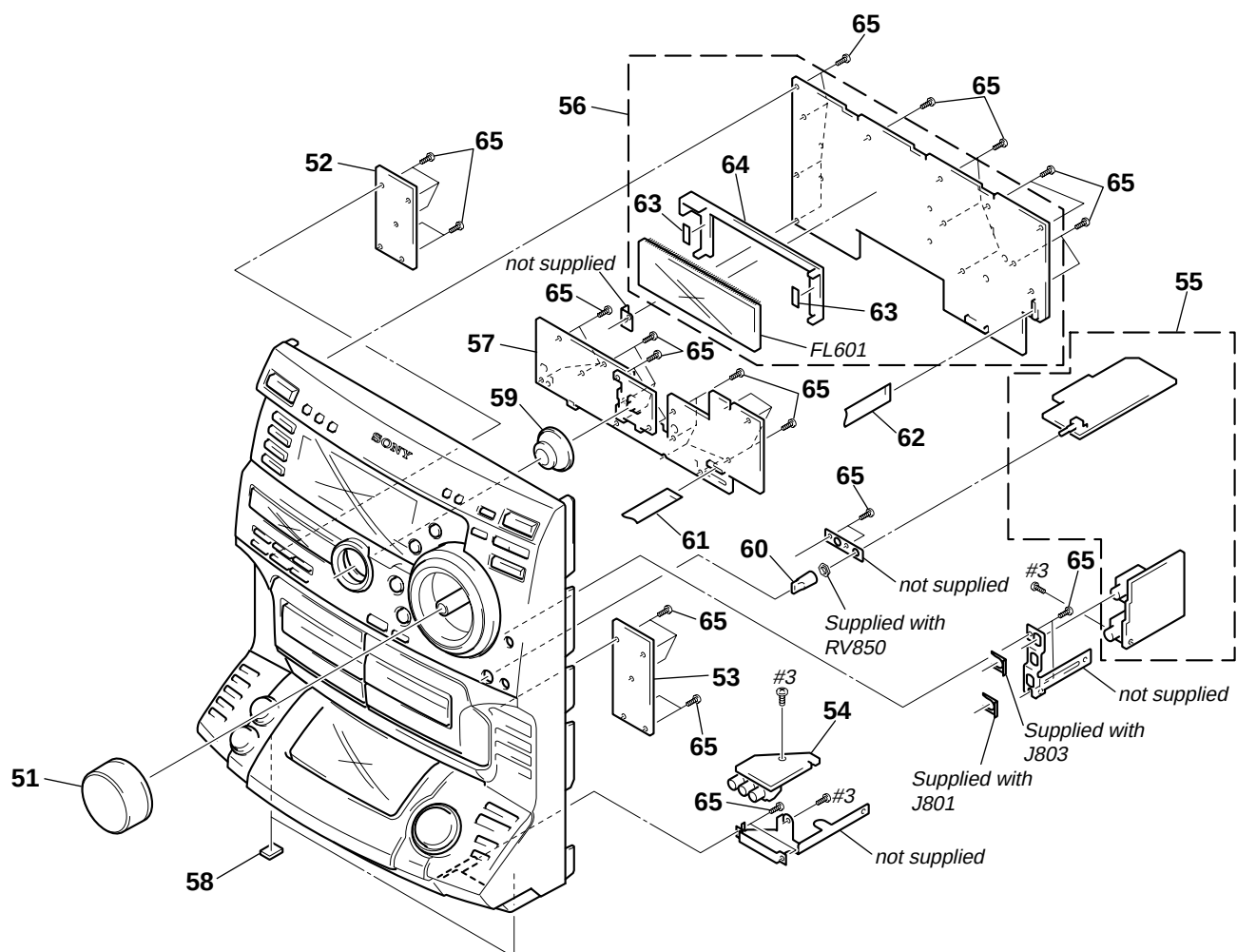
8-1. CASE AND BACK PANEL SECTION



Ref. No.	Part No.	Description	Remark
1	1-769-977-11	WIRE (FLAT TYPE) (13 CORE) (DR4/DR5/DR6/DR440/W300/W5000)	
1	1-773-009-11	WIRE (FLAT TYPE) (15 CORE)(XB500)	
* 2	4-214-777-11	CASE (DR4/DR5/DR6/W300/W5000/XB500)	
* 2	4-214-777-31	CASE (DR440)	
* 3	4-214-785-01	PANEL, BACK (XB500:AEP,UK) (Indonesia PRODUCT)	
* 3	4-214-785-21	PANEL, BACK (XB500:AEP)(Thai PRODUCT)	
* 3	4-214-786-01	PANEL, BACK (DR4:E,AR)	
* 3	4-214-786-11	PANEL, BACK (DR4:SP)	
* 3	4-214-786-21	PANEL, BACK (DR4:MX)	
* 3	4-214-786-31	PANEL, BACK (DR4:AUS)	
* 3	4-214-786-41	PANEL, BACK (DR4:EA)	
* 3	4-214-786-51	PANEL, BACK (DR5:E,AR)	
* 3	4-214-786-61	PANEL, BACK (DR5:SP)	
* 3	4-214-786-71	PANEL, BACK (DR5:MX)	
* 3	4-214-786-81	PANEL, BACK (DR440)	

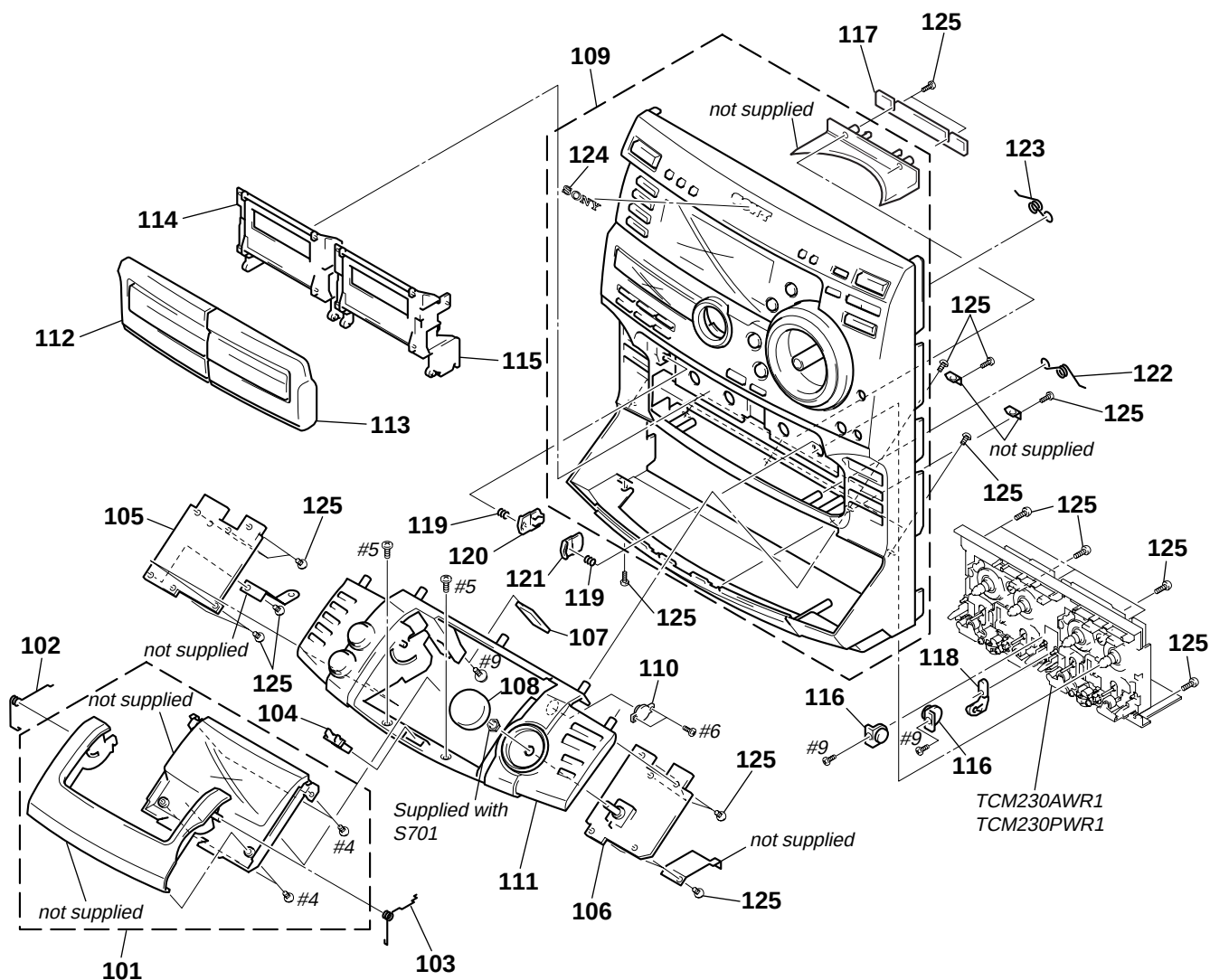
Ref. No.	Part No.	Description	Remark
* 3	4-214-787-41	PANEL, BACK (W300:US)	
* 3	4-214-787-51	PANEL, BACK (W300:CND)	
* 3	4-214-787-61	PANEL, BACK (W5000)	
* 3	4-214-788-31	PANEL, BACK (DR6:E,AR)	
* 3	4-214-788-41	PANEL, BACK (DR6:SP,MY)	
* 3	4-214-788-51	PANEL, BACK (DR6:MX)	
* 3	4-214-786-91	PANEL, BACK (DR4:TH)	
4	3-363-099-01	SCREW (CASE 3 TP2)	
5	1-233-545-11	TUNER (UNIT)(EA,SP,MY,AR,MX,AUS)	
5	1-693-443-11	TUNER (UNIT)(AEP,UK)	
5	1-693-445-11	TUNER (UNIT)(US,CND)	
5	1-693-453-11	TUNER (UNIT)(TH)	
6	4-956-370-12	BAND, PLUG FIXED (AUS,UK)	
M901	1-698-792-11	FAN, DC (DR4/DR440/W300/W5000)	
M901	1-763-072-11	FAN, DC (DR5/DR6)	

8-2. FRONT PANEL SECTION 1



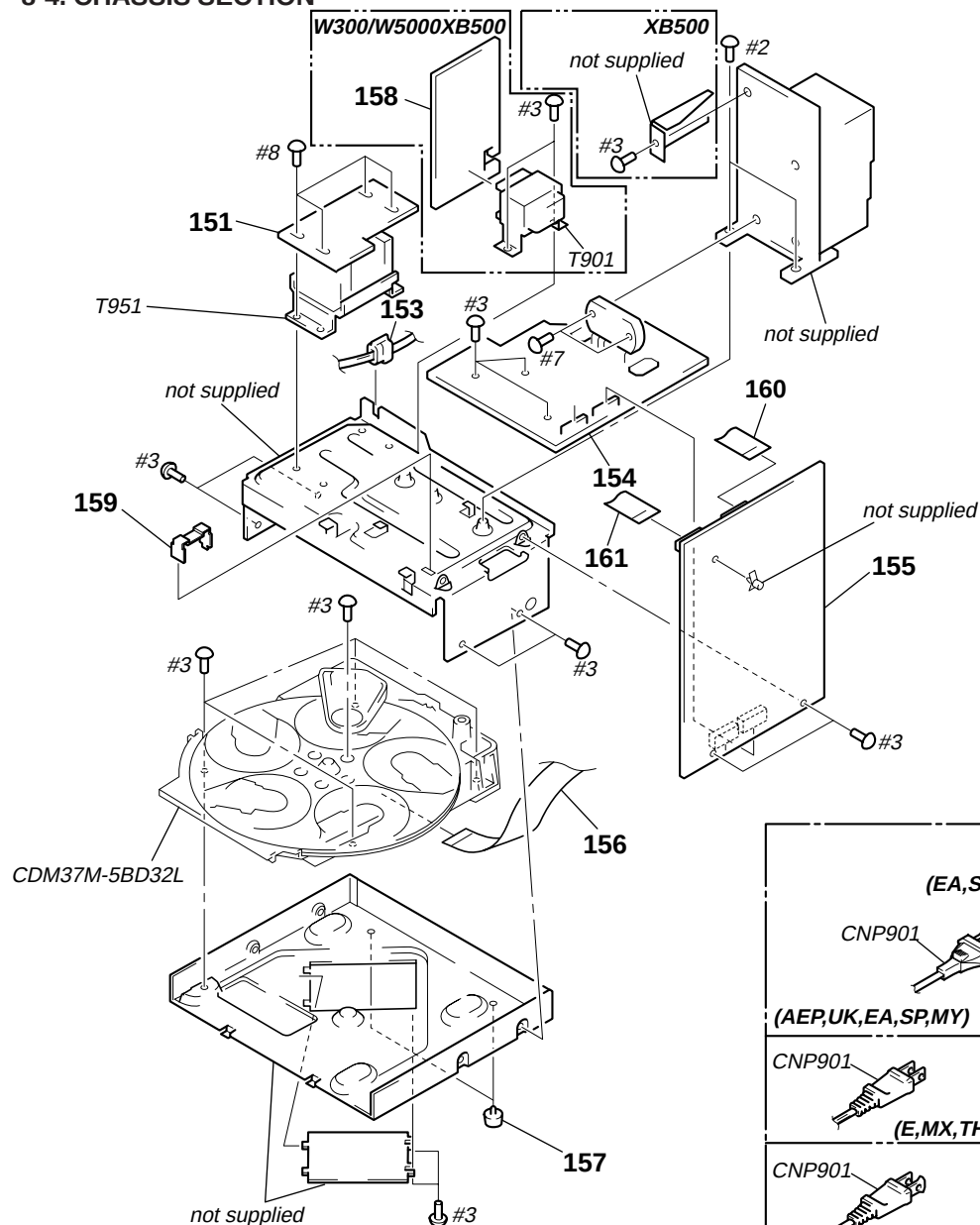
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
51	4-214-716-01	KNOB (VOL) (DR4/DR5/DR6/W300/W5000/XB500)		* 57	A-4417-536-A	PANEL-VR BOARD, COMPLETE	
51	4-214-716-11	KNOB (VOL)(DR44)		58	4-948-236-21	CUSHION (107)	
* 52	1-672-193-11	TC-A BOARD		59	4-214-717-01	CURSOR (DR4/DR5/DR6/W300/W5000/XB500)	
* 53	1-672-194-11	TC-B BOARD		59	4-214-717-11	CURSOR (DR440)	
* 54	1-672-190-11	FRONT INPUT BOARD		60	4-214-756-01	KNOB (MICROPHONE)	
* 55	A-4417-530-A	JACK BOARD, COMPLETE		61	1-773-002-11	WIRE (FLAT TYPE) (15 CORE)(80 mm)	
* 56	A-4417-499-A	PANEL FL BOARD, COMPLETE (W300/W5000)		62	1-773-034-11	WIRE (FLAT TYPE) (15 CORE)(420 mm)	
* 56	A-4417-510-A	PANEL FL BOARD, COMPLETE (XB500)		* 63	4-949-935-81	CUSHION (FL)	
* 56	A-4417-524-A	PANEL FL BOARD, COMPLETE (DR4/DR440)		* 64	4-214-750-01	HOLDER (915), FL TUBE	
* 56	A-4417-570-A	PANEL FL BOARD, COMPLETE (DR5/DR6)		65	4-951-620-01	SCREW (2.6X8), +BVTP	
				FL601	1-517-840-11	INDICATOR TUBE, FLUORESCENT	

8-3. FRONT PANEL SECTION 2



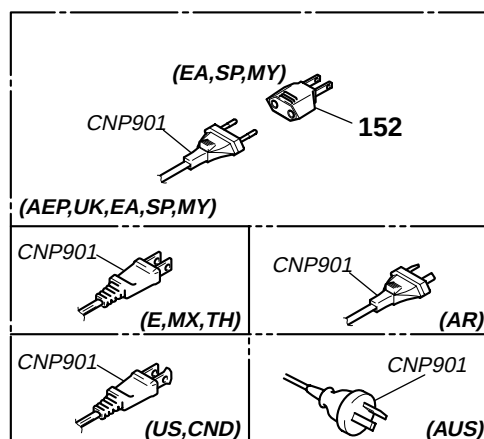
Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
101	X-4950-635-1	LID ASSY, CD (DR4/DR5/DR6/W300/W5000/XB500)		112	X-4950-654-1	LID (A) ASSY, CASSETTE (XB500)	
101	X-4950-878-1	LID ASSY, CD (DR440)		112	X-4950-656-1	LID (A) ASSY, CASSETTE (W5000)	
102	4-214-773-01	SPRING (CD-L), TORSION		112	X-4950-657-1	LID (A) ASSY, CASSETTE (DR4)	
103	4-214-774-01	SPRING (CD-R), TORSION		112	X-4950-658-1	LID (A) ASSY, CASSETTE (DR5)	
104	4-040-472-01	LATCH, D.C.		112	X-4950-662-1	LID (A) ASSY, CASSETTE (DR6)	
* 105	1-672-186-11	CD-L BOARD		112	X-4950-879-1	LID (A) ASSY, CASSETTE (DR440)	
* 106	1-672-187-11	CD-R BOARD		113	X-4950-639-1	LID (B) ASSY, CASSETTE (DR4/DR5/DR6/W300/W5000/XB500)	
* 107	1-672-191-11	DOOR SWITCH BOARD		113	X-4950-664-1	LID ASSY, CASSETTE (DR440)	
108	4-214-718-01	KNOB (CD) (DR4/DR5/DR6/W300/W5000/XB500)		114	X-4950-641-1	HOLDER (A) ASSY, CASSETTE	
108	4-214-718-11	KNOB (CD)(DR440)		115	X-4950-642-1	HOLDER (B) ASSY, CASSETTE	
109	X-4950-617-1	PANEL ASSY, FRONT (DR4)		116	4-210-045-02	DAMPER	
109	X-4950-618-1	PANEL ASSY, FRONT (W300/W5000)		* 117	1-672-195-11	LED (PANEL) BOARD	
109	X-4950-619-1	PANEL ASSY, FRONT (XB500)		118	4-214-755-01	HOLDER (FULCRUM)	
109	X-4950-620-1	PANEL ASSY, FRONT (DR5/DR6)		119	4-214-775-01	SPRING, PUSH CATCHER RETURN	
109	X-4950-876-1	PANEL ASSY, FRONT (DR440)		120	4-214-760-01	CATCHER (A), PUSH	
* 110	3-973-975-21	DAMPER, OIL		121	4-214-761-01	CATCHER (B), PUSH	
111	X-4950-633-1	PANEL ASSY, SUB (DR4/DR5/DR6/W300/W5000/XB500)		122	4-214-769-01	SPRING (TC-B), TORSION	
111	X-4950-877-1	PANEL ASSY, SUB (DR440)		123	4-214-768-01	SPRING (TC-A), TORSION	
112	X-4950-653-1	LID (A) ASSY, CASSETTE (W300)		124	4-214-759-01	EMBLEM (NO.6), SONY	
				125	4-951-620-01	SCREW (2.6X8), +BVTP	

8-4. CHASSIS SECTION



The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

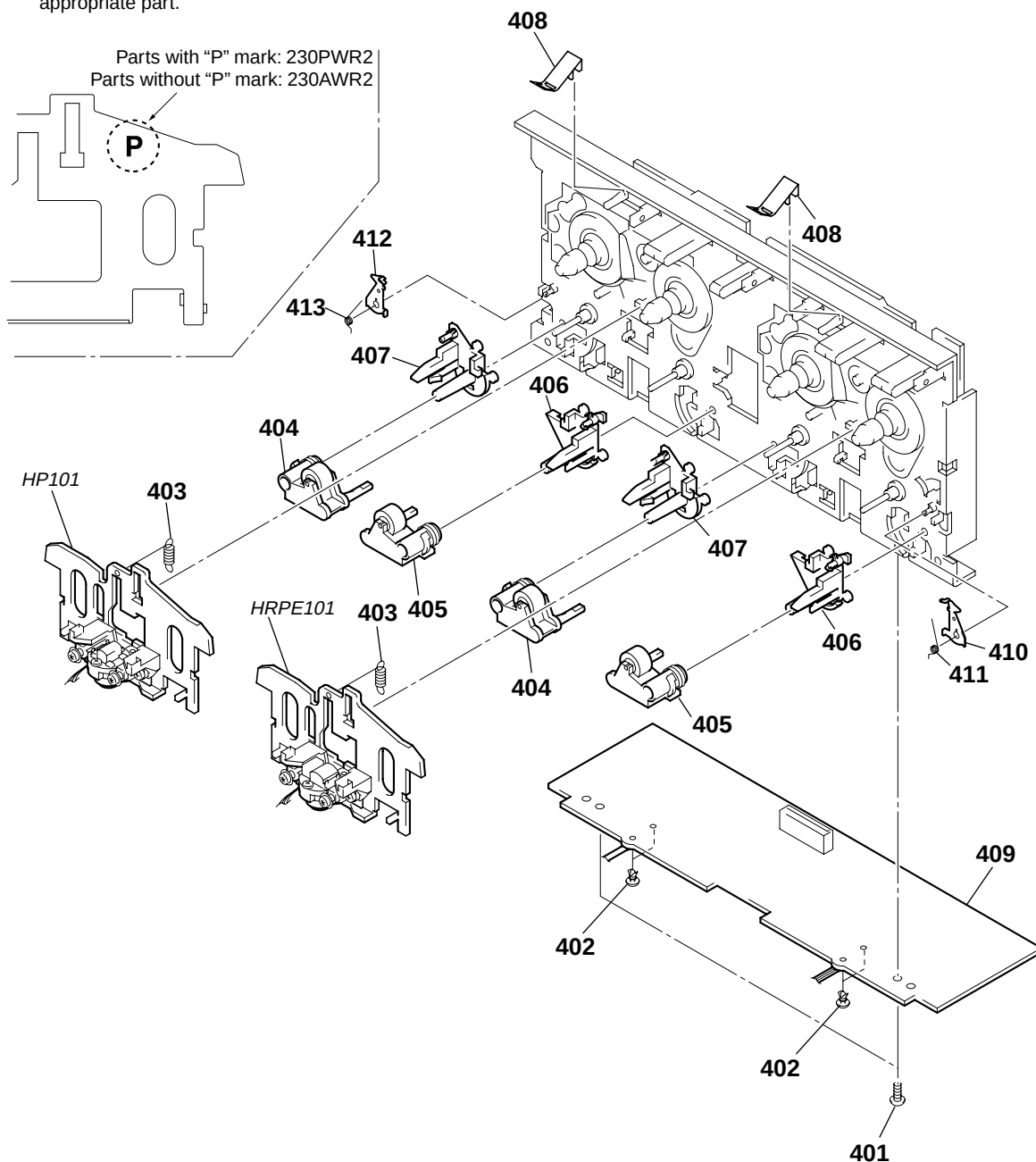


Ref. No.	Part No.	Description	Remark
* 151	1-672-430-11	TRANS BOARD (WA300/W5000/XB500)	
* 151	1-672-431-11	TRANS BOARD (DR4/DR5/DR6/DR440)	
152	1-569-008-21	ADAPTOR, CONVERSION 2P (EA,SP,MY)	
153	3-703-244-00	BUSHING (FBS001), CORD (EXCEPT E,TH,MX)	
153	4-966-266-01	BUSHING (S) (FBS002), CORD (E,TH,MX)	
* 154	A-4417-503-A	PA BOARD, COMPLETE (W300)	
* 154	A-4417-512-A	PA BOARD, COMPLETE (XB500)	
* 154	A-4417-537-A	PA BOARD, COMPLETE (DR4/DR440)	
* 154	A-4417-565-A	PA BOARD, COMPLETE (DR6)	
* 154	A-4417-572-A	PA BOARD, COMPLETE (DR5)	
* 154	A-4419-648-A	PA BOARD, COMPLETE (W5000)	
* 155	A-4417-496-A	MAIN BOARD, COMPLETE (W300/W5000)	
* 155	A-4417-507-A	MAIN BOARD, COMPLETE (XB500)	
* 155	A-4417-516-A	MAIN BOARD, COMPLETE (DR4:E,TH,AR,MX/DR440)	
* 155	A-4417-562-A	MAIN BOARD, COMPLETE (DR6:E,AR,MX)	
* 155	A-4417-567-A	MAIN BOARD, COMPLETE (DR5:E,AR,MX)	
* 155	A-4417-970-A	MAIN BOARD, COMPLETE (DR6:SP,MY)	
* 155	A-4417-974-A	MAIN BOARD, COMPLETE (DR5:SP)	
* 155	A-4417-988-A	MAIN BOARD, COMPLETE (DR4:SP,AUS)	

Ref. No.	Part No.	Description	Remark
* 155	A-4417-982-A	MAIN BOARD, COMPLETE (DR4:EA)	
156	1-790-287-11	WIRE (FLAT TYPE) (19 CORE)	
157	X-4941-228-1	FOOT (F22125H-M)	
* 158	1-672-432-11	SUB TRANS BOARD (W300/W5000/XB500)	
* 159	4-988-533-01	HOLDER, PWB	
160	1-773-006-11	WIRE (FLAT TYPE) (15 CORE)	
161	1-773-056-11	WIRE (FLAT TYPE) (17 CORE)	
Δ CNP901	1-558-943-41	CORD, POWER (E,MX,TH)	
Δ CNP901	1-575-042-21	CORD, POWER (CND)	
Δ CNP901	1-575-651-21	CORD, POWER (AEP,UK,EA,SP,MY)	
Δ CNP901	1-696-845-31	CORD, POWER (AUS)	
Δ CNP901	1-783-531-31	CORD, POWER (US)	
Δ CNP901	1-783-941-31	CORD, POWER (AR)	
Δ T901	1-433-615-11	TRANSFORMER, POWER (W300/W5000)	
Δ T901	1-433-616-11	TRANSFORMER, POWER (XB500)	
Δ T951	1-433-602-11	TRANSFORMER, POWER (W300/W5000)	
Δ T951	1-433-603-11	TRANSFORMER, POWER (XB500)	
Δ T951	1-433-604-11	TRANSFORMER, POWER (DR4/DR440)	
Δ T951	1-433-606-11	TRANSFORMER, POWER (DR5)	
Δ T951	1-433-611-11	TRANSFORMER, POWER (DR6)	

8-5. TC MECHANISM SECTION 1 (TCM230AWR2/230PWR2)

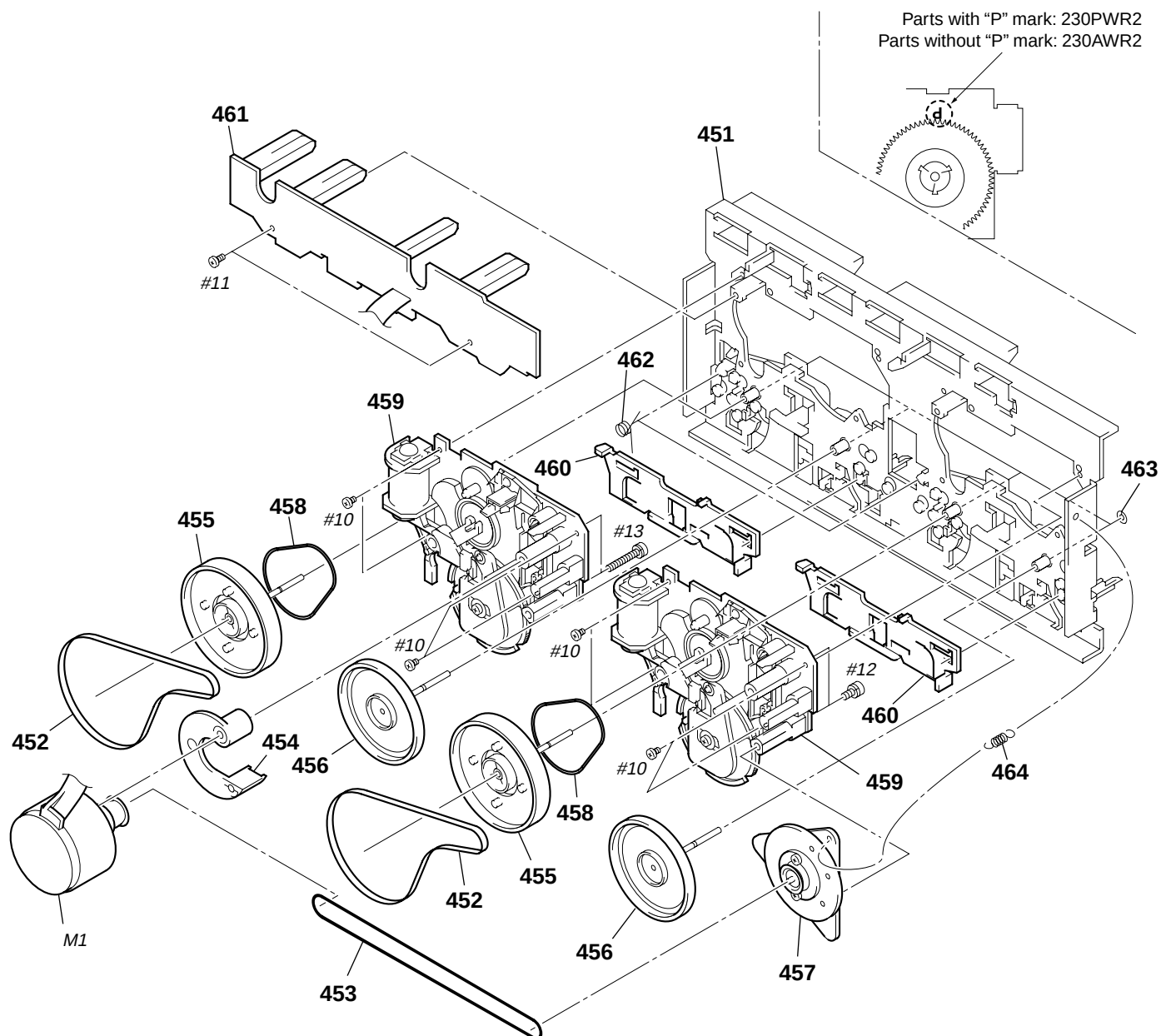
*NOTE: Two types of parts which are not interchangeable are available for the Head deck (A) ASSY and Head deck (B) ASSY. When replacing the parts, refer to the following figure, and use the appropriate part.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
401	3-376-464-11	SCREW(+PTT 2.6X6),GROUND POINT		410	3-016-573-01	LEVER (EJECT PREVENTION R)	
402	3-911-116-21	RIVET, PUSH		411	3-032-810-02	SPRING (R), TORSION	
403	3-016-574-01	SPRING (HEAD), TENSION		412	3-016-572-01	LEVER (EJECT PREVENTION L)	
404	X-3374-156-1	PINCH LEVER (REV) ASSY		413	3-032-809-02	SPRING (L), TORSION	
405	X-3374-155-1	PINCH LEVER (FWD) ASSY		HP101	A-2056-681-B	DECK (A) ASSY, HEAD (230AWR2)(*NOTE)	
406	3-017-365-01	BASE (PINCH LEVER FWD)		HP101	A-2056-683-B	DECK (A) ASSY, HEAD (230PWR2)(*NOTE)	
407	3-017-366-01	BASE (PINCH LEVER REV)		HRPE101	A-2056-682-B	DECK (B) ASSY, HEAD (230AWR2)(*NOTE)	
408	3-026-892-01	SPRING (CASSETTE), LEAF		HRPE101	A-2056-684-B	DECK (B) ASSY, HEAD (230PWR2)(*NOTE)	
409	A-2007-799-A	AUDIO BOARD, COMPLETE					

8-6. TC MECHANISM SECTION 2 (TCM230AWR2/230PWR2)

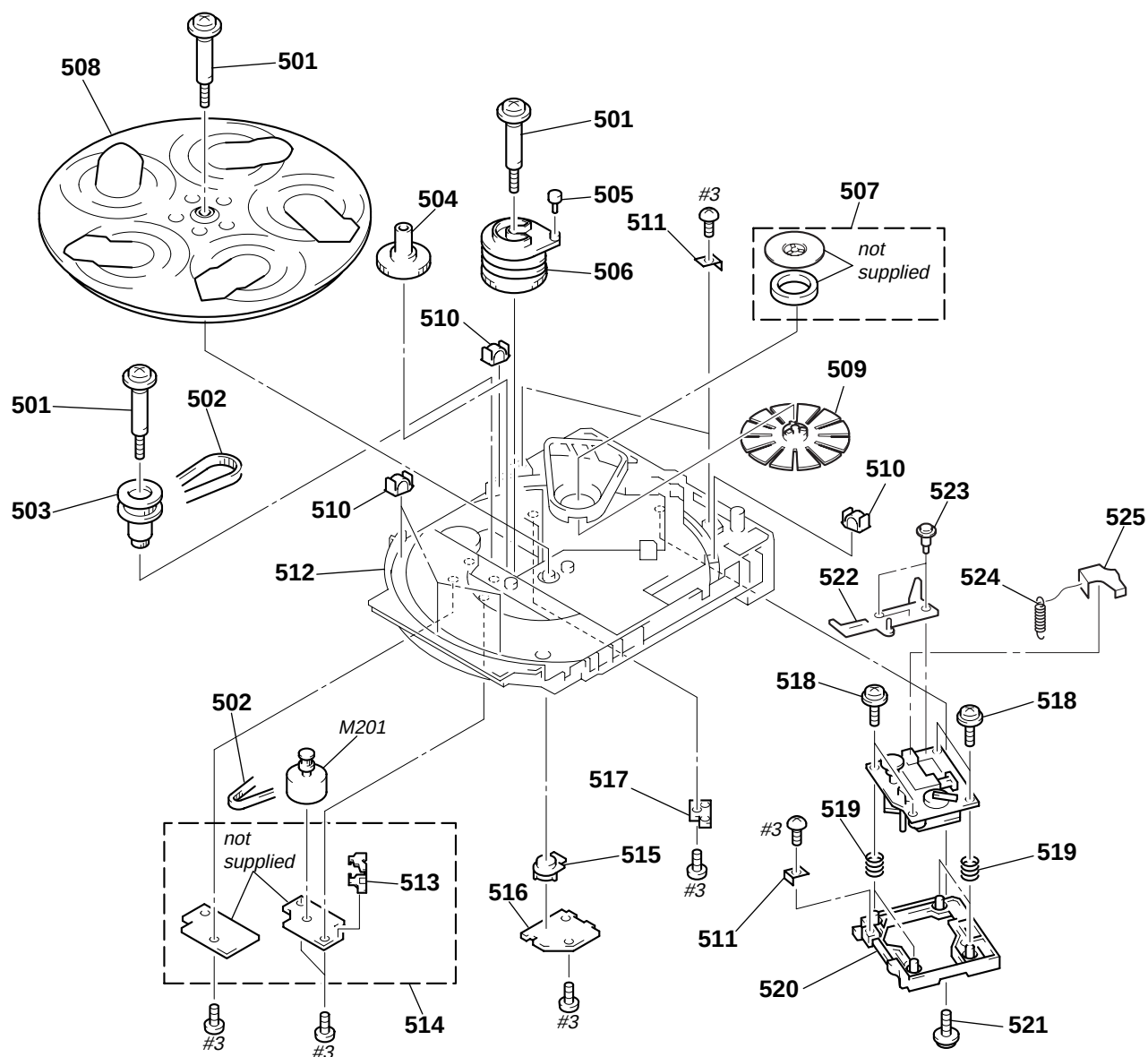
*NOTE: Two types of parts which are not interchangeable are available for the mechanical block assembly. When replacing the parts, refer to the following figure, and use the appropriate part.



Ref. No.	Part No.	Description	Remark
451	X-3374-214-1	CHASSIS ASSY, MAIN	
452	3-016-570-01	BELT (CAPSTAN)	
453	3-016-569-01	BELT (TENSION)	
* 454	3-016-568-01	BRACKET (MOTOR)	
455	X-3374-075-5	FLYWHEEL (FWD) ASSY	
456	X-3374-076-1	FLYWHEEL (REV) ASSY	
457	X-3374-157-1	PULLEY ASSY, TENSION	
458	3-024-405-01	BELT (FR2)	
459	A-2004-629-A	MECHANICAL BLOCK ASSY (230AWR2)(*NOTE)	

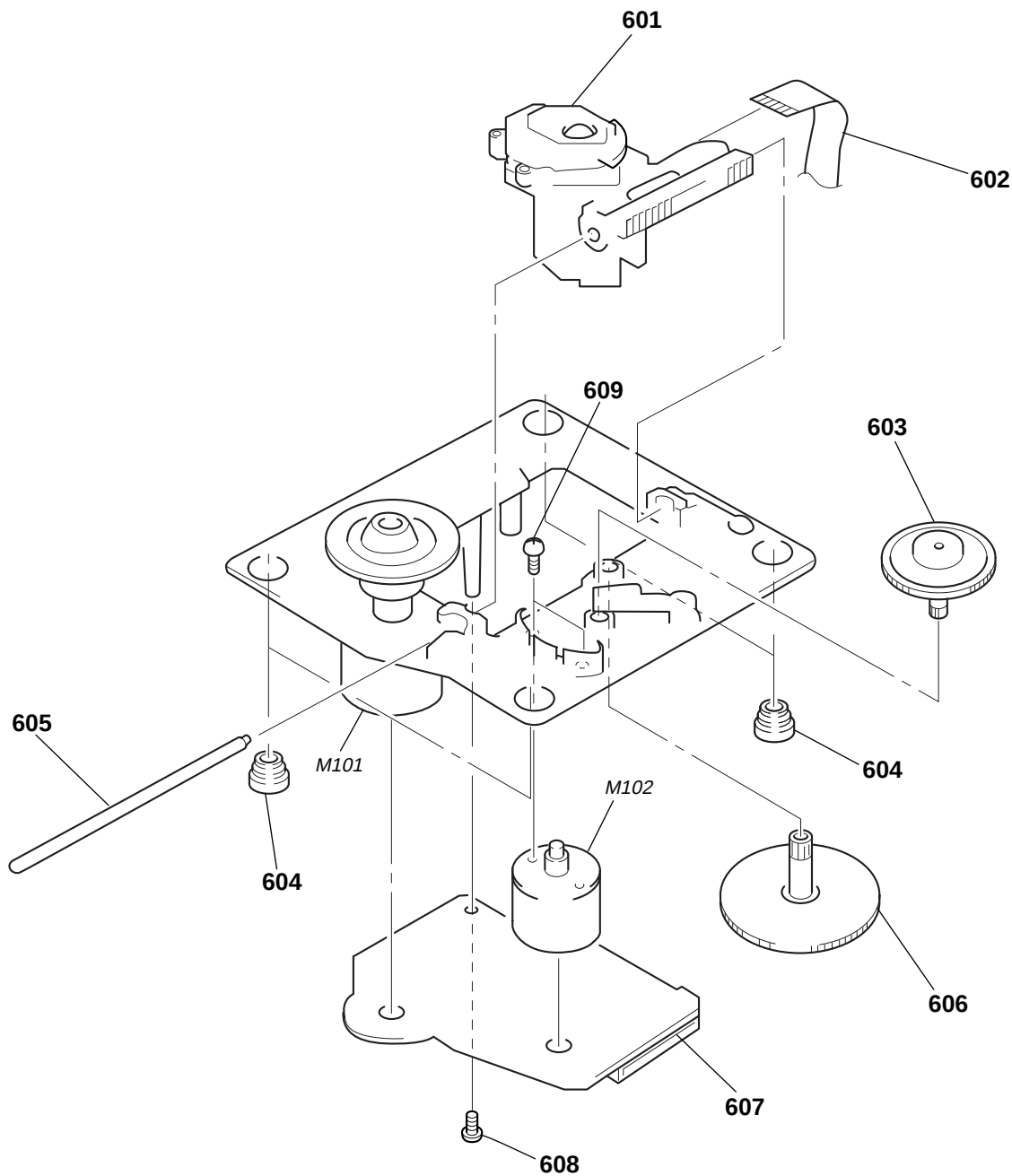
Ref. No.	Part No.	Description	Remark
459	A-2004-630-A	MECHANICAL BLOCK ASSY (230PWR2)(*NOTE)	
460	3-016-566-01	SLIDER, REVERSE	
461	A-2007-800-A	LEAF SW BOARD, COMPLETE	
462	3-016-575-01	SPRING, TORSION	
463	3-019-208-01	WASHER, STOPPER	
464	3-027-453-01	SPRING (GROUND), TENSION	
M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	

8-7. CD MECHANISM SECTION (CDM37M-5BD32L)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501	4-987-976-01	SCREW, STEP		515	4-978-426-01	INDICATOR (NO.)	
502	4-944-490-01	BELT (TIMING)		* 516	1-659-059-13	LED (CD) BOARD	
503	A-4660-978-A	GEAR (PULLEY) ASSY		* 517	1-659-058-13	TABLE SENSOR BOARD	
504	4-978-421-01	GEAR (MID)		518	4-985-672-01	SCREW (+PTPWHM2.6), FLOATING	
505	4-978-425-01	ROLLER (CAM)		519	4-958-593-01	SPRING (BU), COMPRESSION	
506	4-978-420-01	CAM (HOLDER)		* 520	4-978-419-01	HOLDER (BU-5)	
507	1-452-925-21	MAGNET ASSY		521	4-998-716-01	SCREW, BU FITTING	
508	4-978-417-01	TABLE, DISC		522	4-989-493-01	SLIDER (37)	
509	4-993-142-11	PULLEY (L), PRESS		523	4-989-494-01	SCREW (SLIDER), STEP	
510	X-4947-960-1	ROLLER ASSY		524	4-989-819-02	SPRING, TENSION	
* 511	4-978-583-01	BRACKET (BU)		525	4-989-491-21	COVER, LENS	
* 512	4-978-418-01	CHASSIS		M201	A-4660-977-A	MOTOR ASSY (TABLE)	
* 513	4-980-385-01	HOLDER (SW)					
* 514	A-4673-765-A	CD MOTOR BOARD, COMPLETE					

8-8. BASE UNIT SECTION (BU-5BD32L)



The components identified by mark $\triangle$ or dotted line with mark $\triangle$ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque $\triangle$ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.
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Ref. No.	Part No.	Description	Remark
$\triangle$ 601	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP	
602	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
603	4-917-567-21	GEAR (M)	
604	4-951-940-01	INSULATOR (BU)	
605	4-917-565-01	SHAFT, SLED	
606	4-917-564-01	GEAR (P), FLATNESS	

Ref. No.	Part No.	Description	Remark
* 607	A-4724-488-A	BD BOARD, COMPLETE	
608	4-951-620-01	SCREW (2.6X8), +BVTP	
609	3-713-786-51	SCREW +P 2X3	
M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
M102	X-4917-504-1	MOTOR ASSY (SLED)	

SECTION 9 ELECTRICAL PARTS LIST

AUDIO

Note:

The components identified by mark Δ or dotted line with mark Δ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque Δ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- Items marked “*” are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- RESISTORS
All resistors are in ohms
METAL: Metal-film resistor
METAL OXIDE: Metal Oxide-film resistor
F : nonflammable

- SEMICONDUCTORS
In each case, u: μ , for example:
uA...: μ A..., uPA...: μ PA..., uPB...: μ PB..., uPC...: μ PC..., uPD...: μ PD...
- CAPACITORS
uF : μ F
- COILS
uH : μ H
- Abbreviation
CND : Canadian model
EA : Saudi Arabia model
MX : Mexican model
SP : Singapore model
MY : Malaysia model
AR : Argentine model
TH : Thailand model

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
	A-2007-799-A	AUDIO BOARD, COMPLETE *****							< IC >				
		< CAPACITOR >					IC601	8-759-111-44	IC UPC4570C-1				
							IC602	8-759-143-54	IC UPC1330HA				
							IC611	8-759-111-44	IC UPC4570C-1				
C301	1-162-289-31	CERAMIC	390PF	10%	50V			< COIL >					
C302	1-126-968-11	ELECT	100uF	20%	6.3V								
C303	1-162-282-31	CERAMIC	100PF	10%	50V								
C304	1-130-483-00	MYLAR	0.01uF	5%	50V		L331	1-410-780-11	INDUCTOR	27mH			
C305	1-107-715-11	ELECT	22uF	20%	16V		L431	1-410-780-11	INDUCTOR	27mH			
							L601	1-414-193-41	INDUCTOR	220uH			
C311	1-162-289-31	CERAMIC	390PF	10%	50V		L602	1-414-193-41	INDUCTOR	220uH			
C313	1-162-282-31	CERAMIC	100PF	10%	50V			< TRANSISTOR >					
C314	1-130-487-00	MYLAR	0.022uF	5%	50V								
C315	1-126-233-11	ELECT	22uF	20%	50V								
C331	1-137-427-11	FILM	120PF	5%	50V		Q621	8-729-142-46	TRANSISTOR	2SC2001-LK			
							Q622	8-729-142-46	TRANSISTOR	2SC2001-LK			
C332	1-162-288-31	CERAMIC	330PF	10%	50V		Q623	8-729-801-93	TRANSISTOR	2SD1387			
C333	1-162-209-31	CERAMIC	27PF	5%	50V			< RESISTOR >					
C401	1-162-289-31	CERAMIC	390PF	10%	50V								
C402	1-126-968-11	ELECT	100uF	20%	6.3V		R301	1-247-881-00	CARBON	120K	5%	1/4W	
C403	1-162-282-31	CERAMIC	100PF	10%	50V		R302	1-247-815-91	CARBON	220	5%	1/4W	
							R303	1-247-863-91	CARBON	22K	5%	1/4W	
C404	1-130-483-00	MYLAR	0.01uF	5%	50V		R304	1-247-889-00	CARBON	270K	5%	1/4W	
C405	1-107-715-11	ELECT	22uF	20%	16V		R305	1-247-858-11	CARBON	13K	5%	1/4W	
C411	1-162-289-31	CERAMIC	390PF	10%	50V								
C413	1-162-282-31	CERAMIC	100PF	10%	50V		R311	1-247-881-00	CARBON	120K	5%	1/4W	
C414	1-130-487-00	MYLAR	0.022uF	5%	50V		R312	1-247-807-31	CARBON	100	5%	1/4W	
							R314	1-247-882-11	CARBON	130K	5%	1/4W	
C415	1-126-233-11	ELECT	22uF	20%	50V		R315	1-247-850-11	CARBON	6.2K	5%	1/4W	
C431	1-137-427-11	FILM	120PF	5%	50V		R331	1-249-430-11	CARBON	12K	5%	1/4W	
C432	1-162-288-31	CERAMIC	330PF	10%	50V								
C433	1-162-209-31	CERAMIC	27PF	5%	50V		R401	1-247-881-00	CARBON	120K	5%	1/4W	
C601	1-104-396-11	ELECT	10uF	20%	16V		R402	1-247-815-91	CARBON	220	5%	1/4W	
							R403	1-247-863-91	CARBON	22K	5%	1/4W	
C602	1-104-396-11	ELECT	10uF	20%	16V		R404	1-247-889-00	CARBON	270K	5%	1/4W	
C611	1-104-396-11	ELECT	10uF	20%	16V		R405	1-247-858-11	CARBON	13K	5%	1/4W	
C612	1-104-396-11	ELECT	10uF	20%	16V								
C621	1-137-150-11	FILM	0.01uF	5%	100V		R411	1-247-881-00	CARBON	120K	5%	1/4W	
C622	1-126-961-11	ELECT	2.2uF	20%	50V		R412	1-247-807-31	CARBON	100	5%	1/4W	
							R414	1-247-882-11	CARBON	130K	5%	1/4W	
C623	1-136-155-00	FILM	0.015uF	5%	50V		R415	1-247-850-11	CARBON	6.2K	5%	1/4W	
C624	1-130-481-00	MYLAR	0.0068uF	5%	50V		R431	1-249-430-11	CARBON	12K	5%	1/4W	
C625	1-130-481-00	MYLAR	0.0068uF	5%	50V								
C627	1-124-903-11	ELECT	1uF	20%	50V		R601	1-247-815-91	CARBON	220	5%	1/4W	
C628	1-136-153-00	FILM	0.01uF	5%	50V		R602	1-247-815-91	CARBON	220	5%	1/4W	
							R608	1-247-815-91	CARBON	220	5%	1/4W	
C642	1-104-664-11	ELECT	47uF	20%	16V		R609	1-247-863-91	CARBON	22K	5%	1/4W	
							R611	1-247-815-91	CARBON	220	5%	1/4W	
		< CONNECTOR >											
CN601	1-695-338-11	PIN, CONNECTOR (PC BOARD) 15P					R612	1-247-815-91	CARBON	220	5%	1/4W	
							△ R621	1-212-851-00	FUSIBLE	5.6	5%	1/4W F	
							△ R622	1-212-851-00	FUSIBLE	5.6	5%	1/4W F	

AUDIO

BD

Ref. No.	Part No.	Description			Remark
R623	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-432-11	CARBON	18K	5%	1/4W
R625	1-249-429-11	CARBON	10K	5%	1/4W
< VARIABLE RESISTOR >					
RV301	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV311	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV341	1-241-768-11	RES, ADJ, CARBON 220K			
RV401	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV411	1-238-598-11	RES, ADJ, CARBON 2.2K			
RV441	1-241-768-11	RES, ADJ, CARBON 220K			
< TRANSFORMER >					
T621	1-423-980-11	TRANSFORMER, BIAS OSCILLATION			

*	A-4724-488-A	BD BOARD, COMPLETE			

< CAPACITOR >					
C101	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C102	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C103	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C104	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C108	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C109	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C110	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C111	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C112	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C113	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C114	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C115	1-126-607-11	ELECT CHIP	47uF	20%	4V
C116	1-126-607-11	ELECT CHIP	47uF	20%	4V
C117	1-126-209-11	ELECT CHIP	100uF	20%	4V
C118	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C119	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C121	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C122	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C123	1-163-021-91	CERAMIC CHIP	0.01uF	10%	50V
C124	1-107-823-11	CERAMIC CHIP	0.47uF	10%	16V
C125	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C126	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C127	1-128-065-11	ELECT CHIP	68uF	20%	10V
C128	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C129	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C130	1-164-346-11	CERAMIC CHIP	1uF		16V
C131	1-124-779-00	ELECT CHIP	10uF	20%	16V
C133	1-164-346-11	CERAMIC CHIP	1uF		16V
C140	1-164-346-11	CERAMIC CHIP	1uF		16V
C141	1-164-346-11	CERAMIC CHIP	1uF		16V
C143	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C151	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C153	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C154	1-110-501-11	CERAMIC CHIP	0.33uF	10%	16V
C156	1-163-235-11	CERAMIC CHIP	22PF	5%	50V

Ref. No.	Part No.	Description	Remark		
C157	1-163-009-11	CERAMIC CHIP 0.001uF	10%	50V	
C159	1-163-019-00	CERAMIC CHIP 0.0068uF	10%	50V	
C161	1-126-206-11	ELECT CHIP 100uF	20%	6.3V	
C162	1-126-205-11	ELECT CHIP 47uF	20%	6.3V	
C163	1-126-206-11	ELECT CHIP 100uF	20%	6.3V	
C165	1-163-038-91	CERAMIC CHIP 0.1uF		25V	
C167	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	
C168	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	
C171	1-163-009-11	CERAMIC CHIP 0.001uF	10%	50V	
C172	1-163-123-00	CERAMIC CHIP 180PF	5%	50V	
C181	1-163-009-11	CERAMIC CHIP 0.001uF	10%	50V	
C182	1-163-123-00	CERAMIC CHIP 180PF	5%	50V	
< CONNECTOR >					
CN101	1-778-874-11	CONNECTOR,FFC(LIF(NON-ZIF))19P			
CN102	1-777-937-11	CONNECTOR, FFC/FPC 16P			
< FERRITE BEAD >					
FB101	1-500-445-21	FERRITE 0UH			
FB103	1-500-445-21	FERRITE 0UH			
< IC >					
IC101	8-752-386-85	IC CXD2587Q			
IC102	8-759-549-28	IC BA5974FP-E2			
IC103	8-752-085-51	IC CXA2568M-T6			
< TRANSISTOR >					
Q101	8-729-010-08	TRANSISTOR MSB710-R			
< RESISTOR >					
R101	1-216-077-00	METAL CHIP 15K	5%	1/10W	
R102	1-216-097-91	RES,CHIP 100K	5%	1/10W	
R103	1-216-077-00	METAL CHIP 15K	5%	1/10W	
R104	1-216-085-00	METAL CHIP 33K	5%	1/10W	
R105	1-216-073-00	METAL CHIP 10K	5%	1/10W	
R106	1-216-049-91	RES,CHIP 1K	5%	1/10W	
R107	1-216-073-00	METAL CHIP 10K	5%	1/10W	
R108	1-216-061-00	METAL CHIP 3.3K	5%	1/10W	
R109	1-216-121-91	RES,CHIP 1M	5%	1/10W	
R110	1-216-025-91	RES,CHIP 100	5%	1/10W	
R111	1-216-121-91	RES,CHIP 1M	5%	1/10W	
R113	1-216-121-91	RES,CHIP 1M	5%	1/10W	
R114	1-216-073-00	METAL CHIP 10K	5%	1/10W	
R116	1-216-001-00	METAL CHIP 10	5%	1/10W	
R117	1-216-049-91	RES,CHIP 1K	5%	1/10W	
R119	1-216-041-00	METAL CHIP 470	5%	1/10W	
R123	1-216-073-00	METAL CHIP 10K	5%	1/10W	
R124	1-216-097-91	RES,CHIP 100K	5%	1/10W	
R131	1-216-033-00	METAL CHIP 220	5%	1/10W	
R143	1-216-103-00	METAL CHIP 180K	5%	1/10W	
R144	1-216-103-00	METAL CHIP 180K	5%	1/10W	
R147	1-216-069-00	METAL CHIP 6.8K	5%	1/10W	
R148	1-216-001-00	METAL CHIP 10	5%	1/10W	
R149	1-216-001-00	METAL CHIP 10	5%	1/10W	
R158	1-216-111-00	METAL CHIP 390K	5%	1/10W	
R159	1-216-101-00	METAL CHIP 150K	5%	1/10W	

BD

CD-L

CD MOTOR

CD-R

Ref. No.	Part No.	Description			Remark
R161	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R162	1-216-101-00	METAL CHIP	150K	5%	1/10W
R171	1-216-078-00	RES,CHIP	16K	5%	1/10W
R172	1-216-073-00	METAL CHIP	10K	5%	1/10W
R173	1-216-077-00	METAL CHIP	15K	5%	1/10W
R181	1-216-078-00	RES,CHIP	16K	5%	1/10W
R182	1-216-073-00	METAL CHIP	10K	5%	1/10W
R183	1-216-077-00	METAL CHIP	15K	5%	1/10W
< NETWORK >					
RN101	1-233-576-11	RES, CHIP NETWORK 100			
RN102	1-233-576-11	RES, CHIP NETWORK 100			
< SWITCH >					
S101	1-572-085-11	SWITCH, LEAF (LIMIT SW)			
< VIBRATOR >					
X101	1-767-408-21	VIBRATOR, CRYSTAL (16.9344MHz)			

*	1-672-186-11	CD-L BOARD			

< CONNECTOR >					
CN812	1-785-332-11	PIN, CONNECTOR (LIGHT ANGLE)6P			
< DIODE >					
D641	8-719-058-04	DIODE SEL5223S-TP15 (NON-STOP)			
< RESISTOR >					
R731	1-249-410-11	CARBON	270	5%	1/4W F
R732	1-249-411-11	CARBON	330	5%	1/4W
R733	1-249-413-11	CARBON	470	5%	1/4W F
R734	1-249-414-11	CARBON	560	5%	1/4W F
R735	1-249-415-11	CARBON	680	5%	1/4W F
R736	1-249-417-11	CARBON	1K	5%	1/4W F
R742	1-249-427-11	CARBON	6.8K	5%	1/4W F
R743	1-249-429-11	CARBON	10K	5%	1/4W
R744	1-249-431-11	CARBON	15K	5%	1/4W
R745	1-249-407-11	CARBON	150	5%	1/4W F
< SWITCH >					
S661	1-554-303-21	SWITCH, TACTILE (DISC 1)			
S662	1-554-303-21	SWITCH, TACTILE (DISC 2)			
S663	1-554-303-21	SWITCH, TACTILE (DISC 3)			
S664	1-554-303-21	SWITCH, TACTILE (DISC 4)			
S665	1-554-303-21	SWITCH, TACTILE (DISC 5)			
S666	1-554-303-21	SWITCH, TACTILE (FLASH)			
S672	1-554-303-21	SWITCH, TACTILE (EDIT)			
S673	1-554-303-21	SWITCH, TACTILE (NON-STOP)			
S674	1-554-303-21	SWITCH, TACTILE (LOOP)			
S702	1-473-534-11	ENCODER, ROTARY (H◀◀ AMS ▶▶I)			

Ref. No.	Part No.	Description				Remark
*	A-4673-765-A	CD MOTOR BOARD, COMPLETE	*****			
*	4-980-385-01	HOLDER (SW)				
		< CAPACITOR >				
C201	1-124-907-11	ELECT	10uF	20%	50V	
C202	1-164-159-21	CERAMIC	0.1uF		50V	
C203	1-124-907-11	ELECT	10uF	20%	50V	
		< CONNECTOR >				
* CN201	1-568-947-11	PIN, CONNECTOR 9P				
		< IC >				
IC201	8-759-365-94	IC TA8409S				
		< COIL >				
L201	1-408-117-00	INDUCTOR	10uH			
		< RESISTOR >				
R205	1-249-427-11	CARBON	6.8K	5%	1/4W F	
R206	1-249-425-11	CARBON	4.7K	5%	1/4W F	
		< SWITCH >				
S201	1-762-587-11	SWITCH, PUSH (1 KEY)(UP SWITCH)				

*	1-672-187-11	CD-R BOARD	*****			
		< CAPACITOR >				
C613	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C614	1-162-306-11	CERAMIC	0.01uF	20%	16V	
		< CONNECTOR >				
CN703	1-785-333-11	PIN, CONNECTOR (LIGHT ANGLE)7P				
		< DIODE >				
D700	8-719-056-13	DIODE SML79423C-TP15 (▷◁)				
		< RESISTOR >				
R751	1-247-843-11	CARBON	3.3K	5%	1/4W	
R752	1-249-425-11	CARBON	4.7K	5%	1/4W F	
R753	1-249-427-11	CARBON	6.8K	5%	1/4W F	
R754	1-249-429-11	CARBON	10K	5%	1/4W	
R755	1-249-431-11	CARBON	15K	5%	1/4W	
R756	1-249-434-11	CARBON	27K	5%	1/4W	
R757	1-249-438-11	CARBON	56K	5%	1/4W	
R758	1-247-804-11	CARBON	75	5%	1/4W	
R759	1-247-804-11	CARBON	75	5%	1/4W	
		< SWITCH >				
S676	1-554-303-21	SWITCH, TACTILE (PLAY MODE)				
S677	1-554-303-21	SWITCH, TACTILE (REPEAT)				
S678	1-554-303-21	SWITCH, TACTILE (<◁)				

CD-R	DOOR SWITCH	FRONT INPUT	JACK	LED (CD)
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Ref. No.	Part No.	Description	Remark			
S679	1-554-303-21	SWITCH, TACTILE (▷▷)				
S681	1-554-303-21	SWITCH, TACTILE (▷⏏)				
S682	1-554-303-21	SWITCH, TACTILE (□)				
S683	1-554-303-21	SWITCH, TACTILE (DISC SKIP)				

*	1-672-191-11	DOOR SWITCH BOARD				

		< CAPACITOR >				
C691	1-162-306-11	CERAMIC	0.01uF	20%	16V	
		< SWITCH >				
S691	1-771-057-11	SWITCH, PUSH (1 KEY)(▲ OPEN)				

*	1-672-190-11	FRONT INPUT BOARD				

		< CAPACITOR >				
C801	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C802	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C811	1-162-282-31	CERAMIC	100PF	10%	50V	
C812	1-164-159-21	CERAMIC	0.1uF		50V	
C813	1-126-960-11	ELECT	1uF	20%	50V	
		< FLUORESCENT INDICATOR >				
FL803	1-424-228-11	FILTER, NOISE				
		< JACK >				
J804	1-764-592-41	JACK 3P (AUDIO L/R, VIDEO)				
		< RESISTOR >				
R801	1-249-417-11	CARBON	1K	5%	1/4W	F
R802	1-249-437-11	CARBON	47K	5%	1/4W	
R803	1-249-417-11	CARBON	1K	5%	1/4W	F
R804	1-249-437-11	CARBON	47K	5%	1/4W	
R805	1-247-804-11	CARBON	75	5%	1/4W	

*	A-4417-530-A	JACK BOARD, COMPLETE				

		< CAPACITOR >				
C804	1-162-306-11	CERAMIC	0.01uF	20%	16V	
C805	1-126-961-11	ELECT	2.2uF	20%	50V	
C807	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C808	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C809	1-164-159-21	CERAMIC	0.1uF		50V	
C810	1-164-159-21	CERAMIC	0.1uF		50V	
C856	1-162-294-31	CERAMIC	0.001uF	10%	50V	
C857	1-162-215-31	CERAMIC	47PF	5%	50V	
C858	1-126-964-11	ELECT	10uF	20%	50V	
C859	1-126-961-11	ELECT	2.2uF	20%	50V	
C860	1-162-215-31	CERAMIC	47PF	5%	50V	

Ref. No.	Part No.	Description			Remark
C861	1-162-282-31	CERAMIC	100PF	10%	50V
C862	1-126-961-11	ELECT	2.2uF	20%	50V
C863	1-126-960-11	ELECT	1uF	20%	50V
C864	1-126-964-11	ELECT	10uF	20%	50V
C882	1-162-290-31	CERAMIC	470PF	10%	50V
C883	1-162-306-11	CERAMIC	0.01uF	20%	16V
< CONNECTOR >					
CN802	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P			
< GROUND TERMINAL >					
* EPT802	1-537-738-21	TERMINAL, EARTH			
< FLUORESCENT INDICATOR >					
FL801	1-424-228-11	FILTER, NOISE			
FL802	1-424-228-11	FILTER, NOISE			
< IC >					
IC850	8-759-634-50	IC M5218AL			
< JACK >					
J801	1-770-226-11	JACK (LARGE TYPE)(MIX MIC)			
J803	1-770-226-11	JACK (LARGE TYPE)(PHONES)			
< RESISTOR >					
R807	1-249-429-11	CARBON	10K	5%	1/4W
R809	1-249-417-11	CARBON	1K	5%	1/4W F
R810	1-247-807-31	CARBON	100	5%	1/4W
R850	1-247-807-31	CARBON	100	5%	1/4W
R852	1-249-441-11	CARBON	100K	5%	1/4W
R853	1-249-417-11	CARBON	1K	5%	1/4W F
R854	1-247-863-91	CARBON	22K	5%	1/4W
R855	1-249-429-11	CARBON	10K	5%	1/4W
R856	1-247-885-00	CARBON	180K	5%	1/4W
R857	1-247-807-31	CARBON	100	5%	1/4W
< VARIABLE RESISTOR >					
RV850	1-225-587-11	RES, VAR, CARBON 50K			

*	1-659-059-13	LED (CD) BOARD			

< DIODE >					
D201	8-719-032-98	DIODE SEL5820A (DISC NO.)			
< TRANSISTOR >					
Q201	8-729-119-78	TRANSISTOR 2SC403SP-51			
< RESISTOR >					
R201	1-247-863-91	CARBON	22K	5%	1/4W
R202	1-249-411-11	CARBON	330	5%	1/4W
R203	1-249-437-11	CARBON	47K	5%	1/4W

LED (PANEL)

MAIN

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
*	1-672-195-11	LED (PANEL) BOARD *****					C131	1-104-664-11	ELECT	47uF	20%	16V	
		< DIODE >					C132	1-104-664-11	ELECT	47uF	20%	16V	
							C135	1-126-964-11	ELECT	10uF	20%	50V	
							C161	1-137-195-11	FILM	0.56uF	5%	50V	
							C162	1-136-158-00	FILM	0.027uF	5%	50V	
D671	8-719-058-03	DIODE SEL5423E-TP15 (DISC TABLE)											
D672	8-719-058-03	DIODE SEL5423E-TP15 (DISC TABLE)					C163	1-136-167-00	FILM	0.15uF	5%	50V	
D673	8-719-058-03	DIODE SEL5423E-TP15 (DISC TABLE)					C164	1-130-480-00	MYLAR	0.0056uF	5%	50V	
D674	8-719-058-03	DIODE SEL5423E-TP15 (DISC TABLE)					C165	1-136-159-00	FILM	0.033uF	5%	50V	
D675	8-719-058-03	DIODE SEL5423E-TP15 (DISC TABLE)					C166	1-130-473-00	MYLAR	0.0015uF	5%	50V	
		< RESISTOR >					C167	1-136-153-00	FILM	0.01uF	5%	50V	
R600	1-249-410-11	CARBON 270 5% 1/4W F					C168	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	
*****							C169	1-130-479-00	MYLAR	0.0047uF	5%	50V	
							C170	1-130-477-00	MYLAR	0.0033uF	5%	50V	
							C171	1-126-964-11	ELECT	10uF	20%	50V	
							C172	1-163-006-11	CERAMIC CHIP	560PF	10%	50V	
*	A-4417-496-A	MAIN BOARD, COMPLETE (W300/W5000) *****											
							C173	1-136-169-00	FILM	0.22uF	5%	50V	
							C174	1-136-169-00	FILM	0.22uF	5%	50V	
*	A-4417-507-A	MAIN BOARD, COMPLETE (XB500) *****					C175	1-126-964-11	ELECT	10uF	20%	50V	
							C176	1-136-495-11	FILM	0.068uF	5%	50V	
							C177	1-136-153-00	FILM	0.01uF	5%	50V	
*	A-4417-516-A	MAIN BOARD, COMPLETE ***** (DR4:E,TH,AR,MX/DR440)											
							C181	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
							C182	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
							C183	1-163-038-91	CERAMIC CHIP	0.1uF		25V	
*	A-4417-562-A	MAIN BOARD, COMPLETE (DR6:E,AR,MX) *****					C191	1-163-031-11	CERAMIC CHIP	0.01uF		50V	
							C193	1-126-964-11	ELECT	10uF	20%	50V	
*	A-4417-567-A	MAIN BOARD, COMPLETE (DR5:E,AR,MX) *****											
							C301	1-126-960-11	ELECT	1uF	20%	50V	
							C302	1-130-479-00	MYLAR	0.0047uF	5%	50V	
							C303	1-136-165-00	FILM	0.1uF	5%	50V	
*	A-4417-970-A	MAIN BOARD, COMPLETE (DR6:SP,MY) *****					C304	1-136-165-00	FILM	0.1uF	5%	50V	
							C305	1-126-964-11	ELECT	10uF	20%	50V	
*	A-4417-974-A	MAIN BOARD, COMPLETE (DR5:SP) *****											
							C306	1-126-960-11	ELECT	1uF	20%	50V	
							C307	1-126-959-11	ELECT	0.47uF	20%	50V	
							C308	1-126-964-11	ELECT	10uF	20%	50V	
*	A-4417-982-A	MAIN BOARD, COMPLETE (DR4:EA) *****					C309	1-137-194-81	FILM	0.47uF	5%	50V	
							C310	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
*	A-4417-988-A	MAIN BOARD, COMPLETE (DR4:SP,AUS) *****											
							C311	1-126-964-11	ELECT	10uF	20%	50V	
							C312	1-126-959-11	ELECT	0.47uF	20%	50V	
							C313	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V	
	4-875-327-31	HEAT SINK					C314	1-126-964-11	ELECT	10uF	20%	50V	
	4-951-620-01	SCREW (2.6X8), +BVTP					C315	1-126-963-11	ELECT	4.7uF	20%	50V	
	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S											
		< CAPACITOR >											
C111	1-137-195-11	FILM 0.56uF 5% 50V					C316	1-104-665-11	ELECT	100uF	20%	10V	
C112	1-136-158-00	FILM 0.027uF 5% 50V					C317	1-104-665-11	ELECT	100uF	20%	10V	
C113	1-136-167-00	FILM 0.15uF 5% 50V					C320	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C114	1-130-480-00	MYLAR 0.0056uF 5% 50V					C333	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C115	1-136-159-00	FILM 0.033uF 5% 50V					C334	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V	
C116	1-130-473-00	MYLAR 0.0015uF 5% 50V					C351	1-126-960-11	ELECT	1uF	20%	50V	
C117	1-136-153-00	FILM 0.01uF 5% 50V					C352	1-130-479-00	MYLAR	0.0047uF	5%	50V	
C118	1-163-129-00	CERAMIC CHIP 330PF 5% 50V					C353	1-136-165-00	FILM	0.1uF	5%	50V	
C119	1-130-479-00	MYLAR 0.0047uF 5% 50V					C354	1-136-165-00	FILM	0.1uF	5%	50V	
C120	1-130-477-00	MYLAR 0.0033uF 5% 50V					C355	1-126-964-11	ELECT	10uF	20%	50V	
C121	1-126-964-11	ELECT 10uF 20% 50V					C356	1-126-960-11	ELECT	1uF	20%	50V	
C122	1-163-006-11	CERAMIC CHIP 560PF 10% 50V					C357	1-126-959-11	ELECT	0.47uF	20%	50V	
C123	1-136-169-00	FILM 0.22uF 5% 50V					C358	1-126-964-11	ELECT	10uF	20%	50V	
C124	1-136-169-00	FILM 0.22uF 5% 50V					C359	1-137-194-81	FILM	0.47uF	5%	50V	
C125	1-126-964-11	ELECT 10uF 20% 50V					C401	1-126-961-11	ELECT	2.2uF	20%	50V	
							C411	1-163-033-91	CERAMIC CHIP	0.022uF		50V	
							C412	1-163-033-91	CERAMIC CHIP	0.022uF		50V	

MAIN

Ref. No.	Part No.	Description	Remark		
C413	1-126-916-11	ELECT	1000uF	20%	6.3V
C414	1-126-916-11	ELECT	1000uF	20%	6.3V
C415	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C416	1-126-925-11	ELECT	470uF	20%	10V
C451	1-126-961-11	ELECT	2.2uF	20%	50V
C510	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C511	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C516	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C562	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C564	1-104-665-11	ELECT	100uF	20%	10V
C598	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C599	1-104-665-11	ELECT	100uF	20%	10V
C601	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C602	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C603	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C604	1-126-961-11	ELECT	2.2uF	20%	50V
(DR4/DR5/DR6/DR440)					
C604	1-126-963-11	ELECT	4.7uF	20%	50V
(W300/W5000/XB500)					
C605	1-130-479-00	MYLAR	0.0047uF	5%	50V
C606	1-130-473-00	MYLAR	0.0015uF	5%	50V
C607	1-136-159-00	FILM	0.033uF	5%	50V
(DR4/DR5/DR6/DR440)					
C607	1-136-165-00	FILM	0.1uF	5%	50V
(W300/W5000/XB500)					
C608	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C609	1-126-933-11	ELECT	100uF	20%	16V
C651	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C652	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C653	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C654	1-126-961-11	ELECT	2.2uF	20%	50V
(DR4/DR5/DR6/DR440)					
C654	1-126-963-11	ELECT	4.7uF	20%	50V
(W300/W5000/XB500)					
C655	1-130-479-00	MYLAR	0.0047uF	5%	50V
C656	1-130-473-00	MYLAR	0.0015uF	5%	50V
C657	1-136-159-00	FILM	0.033uF	5%	50V
(DR4/DR5/DR6/DR440)					
C657	1-136-165-00	FILM	0.1uF	5%	50V
(W300/W5000/XB500)					
C658	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C659	1-126-933-11	ELECT	100uF	20%	16V
C701	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C702	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C703	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C721	1-126-960-11	ELECT	1uF	20%	50V
C722	1-126-926-11	ELECT	1000uF	20%	10V
C724	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C751	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C752	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C753	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C772	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C774	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C777	1-163-038-91	CERAMIC CHIP	0.1uF		25V
C782	1-104-665-11	ELECT	100uF	20%	10V
C803	1-126-964-11	ELECT	10uF	20%	50V
C804	1-136-165-00	FILM	0.1uF	5%	50V
C805	1-136-165-00	FILM	0.1uF	5%	50V

Ref. No.	Part No.	Description	Remark		
C806	1-126-916-11	ELECT	1000uF	20%	6.3V
C808	1-109-953-11	ELECT	2.2uF	20%	50V
C902	1-126-937-11	ELECT	4700uF	20%	16V
C903	1-126-964-11	ELECT	10uF	20%	50V
C904	1-126-964-11	ELECT	10uF	20%	50V
C905	1-126-924-11	ELECT	330uF	20%	10V
C911	1-126-964-11	ELECT	10uF	20%	50V
C912	1-126-916-11	ELECT	1000uF	20%	6.3V
C913	1-104-665-11	ELECT	100uF	20%	10V
C914	1-126-916-11	ELECT	1000uF	20%	6.3V
C932	1-126-964-11	ELECT	10uF	20%	50V
C933	1-126-933-11	ELECT	100uF	20%	16V
C934	1-126-964-11	ELECT	10uF	20%	50V
C935	1-126-767-11	ELECT	1000uF	20%	16V
C936	1-126-964-11	ELECT	10uF	20%	50V
C937	1-104-665-11	ELECT	100uF	20%	10V
C938	1-126-933-11	ELECT	100uF	20%	16V
C952	1-126-943-11	ELECT	2200uF	20%	25V
C953	1-126-964-11	ELECT	10uF	20%	50V
C954	1-126-964-11	ELECT	10uF	20%	50V
C955	1-126-924-11	ELECT	330uF	20%	10V
C961	1-163-038-91	CERAMIC CHIP	0.1uF		25V
(DR4/DR5/DR6/DR440/W300/W5000)					
< CONNECTOR >					
CN303	1-784-776-11	CONNECTOR, FFC 15P			
CN304	1-784-778-11	CONNECTOR, FFC 17P			
CN411	1-784-780-11	CONNECTOR, FFC 19P			
CN412	1-785-321-11	PIN, CONNECTOR (STRAIGHT) 9P			
CN431	1-784-776-11	CONNECTOR, FFC 15P			
CN441	1-750-745-11	CONNECTOR, FFC/FPC 13P			
(DR4/DR5/DR6/DR440/W300/W5000)					
CN441	1-750-747-11	CONNECTOR, FFC/FPC 15P (XB500)			
CN452	1-785-316-11	PIN, CONNECTOR (STRAIGHT) 4P			
CN702	1-691-767-11	PLUG (MICRO CONNECTOR) 5P			
CN901	1-778-982-11	CONNECTOR, BOARD TO BOARD 13P			
* CN902	1-770-729-11	CONNECTOR, BOARD TO BOARD 10P			
(DR4/DR5/DR6/DR440)					
CN902	1-770-731-11	CONNECTOR, BOARD TO BOARD 12P			
(W300/W5000/XB500)					
* CN903	1-564-518-11	PLUG, CONNECTOR 3P			
(DR4/DR5/DR6/DR440/W300/W5000)					
< DIODE >					
D333	8-719-988-61	DIODE 1SS355TE-17			
D334	8-719-988-61	DIODE 1SS355TE-17			
D335	8-719-988-61	DIODE 1SS355TE-17			
D336	8-719-988-61	DIODE 1SS355TE-17			
D501	8-719-988-61	DIODE 1SS355TE-17			
D534	8-719-988-61	DIODE 1SS355TE-17			
D544	8-719-988-61	DIODE 1SS355TE-17			
D801	8-719-988-61	DIODE 1SS355TE-17			
D802	8-719-988-61	DIODE 1SS355TE-17			
D803	8-719-988-61	DIODE 1SS355TE-17			
D804	8-719-988-61	DIODE 1SS355TE-17			
D805	8-719-988-61	DIODE 1SS355TE-17			
D806	8-719-988-61	DIODE 1SS355TE-17			
D807	8-719-988-61	DIODE 1SS355TE-17			

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D808	8-719-210-33	DIODE EC10DS2		JR901	1-216-295-91	SHORT 0	
D911	8-719-988-61	DIODE 1SS355TE-17 (DR4/DR5/DR6/DR440)		JR907	1-216-295-91	SHORT 0 (DR4/DR5/DR6/DR440)	
D912	8-719-210-33	DIODE EC10DS2 (DR4/DR5/DR6/DR440)		JR908	1-216-295-91	SHORT 0 (W300/W5000/XB500)	
D913	8-719-210-33	DIODE EC10DS2 (DR4/DR5/DR6/DR440)		JR909	1-216-295-91	SHORT 0 (W300/W5000/XB500)	
D931	8-719-210-33	DIODE EC10DS2		JR910	1-216-296-91	SHORT 0 (W300/W5000/XB500)	
D951	8-719-988-61	DIODE 1SS355TE-17		JR911	1-216-295-91	SHORT 0 (W300/W5000/XB500)	
< FERRITE BEAD >				< DIODE >			
FB412	1-414-772-11	FERRITE 0UH		JW313	8-719-991-33	DIODE 1SS133T-77	
FB413	1-414-551-11	FERRITE 0UH		< COIL >			
FB415	1-414-772-11	FERRITE 0UH		L781	1-412-032-11	INDUCTOR CHIP 100uH	
< EMI FILTER >				< TRANSISTOR >			
FL501	1-233-289-21	FILTER, EMI (SMD)		Q111	8-729-620-05	TRANSISTOR 2SC2603-EF	
FL502	1-233-289-21	FILTER, EMI (SMD)		Q112	8-729-620-05	TRANSISTOR 2SC2603-EF	
FL503	1-233-289-21	FILTER, EMI (SMD)		Q113	8-729-141-30	TRANSISTOR 2SC3623A-LK	
< IC >				Q115	8-729-029-86	TRANSISTOR DTC124ESA	
IC101	8-759-571-54	IC M62493FP		Q161	8-729-620-05	TRANSISTOR 2SC2603-EF	
IC181	8-759-009-06	IC MC14052BF		Q162	8-729-620-05	TRANSISTOR 2SC2603-EF	
IC191	8-759-571-53	IC BA7615N		Q163	8-729-141-30	TRANSISTOR 2SC3623A-LK	
IC301	8-759-495-26	IC HA12215		Q165	8-729-029-86	TRANSISTOR DTC124ESA	
IC501	8-759-571-18	IC M30622MA-A01FP		Q331	8-729-118-00	TRANSISTOR 2SB1116-L	
IC601	8-759-636-55	IC M5218AFP		Q332	8-729-029-66	TRANSISTOR DTC114ESA	
IC781	8-749-923-04	IC TOTX178		Q333	8-729-118-00	TRANSISTOR 2SB1116-L	
IC801	8-759-635-63	IC M51943BSL		Q334	8-729-029-66	TRANSISTOR DTC114ESA	
IC901	8-759-604-86	IC M5F7807L		Q335	8-729-029-66	TRANSISTOR DTC114ESA	
IC911	8-759-231-53	IC TA7805S		Q336	8-729-116-59	TRANSISTOR 2SB1068TP	
IC931	8-759-604-38	IC M5F78M10		Q337	8-729-045-21	TRANSISTOR 2SD1513TP-LK	
IC932	8-759-231-58	IC TA7812S (DR4/DR5/DR6/DR440/XB500)		Q338	8-729-029-21	TRANSISTOR DTA114ESA-TP	
IC932	8-759-604-39	IC M5F78M12 (W300/W5000)		Q339	8-729-029-66	TRANSISTOR DTC114ESA	
IC933	8-759-604-86	IC M5F7807L		Q340	8-729-116-59	TRANSISTOR 2SB1068TP	
IC951	8-759-604-90	IC M5F7907L		Q341	8-729-045-21	TRANSISTOR 2SD1513TP-LK	
< JACK >				Q342	8-729-029-21	TRANSISTOR DTA114ESA-TP	
J701	1-766-558-41	JACK, PIN 8P		Q343	8-729-029-66	TRANSISTOR DTC114ESA	
		(VIDEO1 (AUDIO) IN, PHONO IN, MD IN/OUT)		Q801	8-729-620-05	TRANSISTOR 2SC2603-EF	
J702	1-770-336-11	JACK, PIN 2P (VIDEO1 (VIDEO) IN, VIDEO OUT)		Q802	8-729-029-21	TRANSISTOR DTA114ESA-TP	
< JUMPER RESISTOR >				Q803	8-729-029-21	TRANSISTOR DTA114ESA-TP	
JR1	1-216-295-91	SHORT 0		Q804	8-729-029-40	TRANSISTOR DTA124ESA	
JR2	1-216-296-91	SHORT 0		Q901	8-729-040-20	TRANSISTOR RT1P137L-TP	
JR3	1-216-296-91	SHORT 0		Q902	8-729-029-40	TRANSISTOR DTA124ESA	
JR4	1-216-295-91	SHORT 0		Q903	8-729-040-19	TRANSISTOR RT1N137L-TP	
JR5	1-216-295-91	SHORT 0		Q904	8-729-029-86	TRANSISTOR DTC124ESA	
JR6	1-216-296-91	SHORT 0		Q905	8-729-119-76	TRANSISTOR 2SA1175-HFE	
JR7	1-216-296-91	SHORT 0		Q906	8-729-029-68	TRANSISTOR DTC114TSA	
JR8	1-216-296-91	SHORT 0		Q911	8-729-040-20	TRANSISTOR RT1P137L-TP	
JR9	1-216-295-91	SHORT 0		Q912	8-729-029-86	TRANSISTOR DTC124ESA	
JR10	1-216-296-91	SHORT 0		Q913	8-729-040-20	TRANSISTOR RT1P137L-TP	
JR11	1-216-296-91	SHORT 0		Q914	8-729-029-86	TRANSISTOR DTC124ESA	
JR181	1-216-295-91	SHORT 0		Q931	8-729-040-20	TRANSISTOR RT1P137L-TP	
JR182	1-216-295-91	SHORT 0		Q932	8-729-029-86	TRANSISTOR DTC124ESA	
JR191	1-216-295-91	SHORT 0		Q961	8-729-620-05	TRANSISTOR 2SC2603-EF	
JR192	1-216-295-91	SHORT 0				(DR4/DR5/DR6/DR440/W300/W5000)	
JR594	1-216-295-91	SHORT 0		Q962	8-729-118-00	TRANSISTOR 2SB1116-L	
JR703	1-216-295-91	SHORT 0				(DR4/DR5/DR6/DR440/W300/W5000)	

MAIN

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
< RESISTOR >							R301	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R111	1-216-073-00	METAL CHIP	10K	5%	1/10W		R302	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R112	1-216-121-91	RES,CHIP	1M	5%	1/10W		R303	1-216-025-91	RES,CHIP	100	5%	1/10W	
R113	1-216-101-00	METAL CHIP	150K	5%	1/10W		R304	1-216-025-91	RES,CHIP	100	5%	1/10W	
					(DR5/DR6)		R305	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R113	1-216-103-00	METAL CHIP	180K	5%	1/10W		R306	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
					(DR4/DR440/W300/W5000/XB500)		R307	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R114	1-216-043-91	RES,CHIP	560	5%	1/10W		R308	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
							R309	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R115	1-216-073-00	METAL CHIP	10K	5%	1/10W		R311	1-216-121-91	RES,CHIP	1M	5%	1/10W	
R116	1-216-091-00	METAL CHIP	56K	5%	1/10W								
R117	1-216-073-00	METAL CHIP	10K	5%	1/10W		R312	1-216-102-00	RES,CHIP	160K	5%	1/10W	
R118	1-216-089-91	RES,CHIP	47K	5%	1/10W		R313	1-216-097-91	RES,CHIP	100K	5%	1/10W	
R119	1-216-057-00	METAL CHIP	2.2K	5%	1/10W		R315	1-216-073-00	METAL CHIP	10K	5%	1/10W	
							R316	1-216-079-00	METAL CHIP	18K	5%	1/10W	
R120	1-216-097-91	RES,CHIP	100K	5%	1/10W		R317	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R121	1-216-073-00	METAL CHIP	10K	5%	1/10W								
R122	1-216-295-91	SHORT	0				R318	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R123	1-216-101-00	METAL CHIP	150K	5%	1/10W		R319	1-216-111-00	METAL CHIP	390K	5%	1/10W	
					(DR5/DR6)		R321	1-216-059-00	METAL CHIP	2.7K	5%	1/10W	
R123	1-216-107-00	METAL CHIP	270K	5%	1/10W		R322	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
					(DR4/DR440/W300/W5000/XB500)		R332	1-216-045-00	METAL CHIP	680	5%	1/10W	
R124	1-216-057-00	METAL CHIP	2.2K	5%	1/10W		R333	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R125	1-216-061-00	METAL CHIP	3.3K	5%	1/10W		R334	1-216-045-00	METAL CHIP	680	5%	1/10W	
R126	1-216-057-00	METAL CHIP	2.2K	5%	1/10W		R335	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R127	1-216-101-00	METAL CHIP	150K	5%	1/10W		R336	1-216-089-91	RES,CHIP	47K	5%	1/10W	
					(DR5/DR6)		R337	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R127	1-216-111-00	METAL CHIP	390K	5%	1/10W								
					(DR4/DR440/W300/W5000/XB500)		R338	1-216-045-00	METAL CHIP	680	5%	1/10W	
R129	1-216-121-91	RES,CHIP	1M	5%	1/10W		R339	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R131	1-216-025-91	RES,CHIP	100	5%	1/10W		R340	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R132	1-216-025-91	RES,CHIP	100	5%	1/10W		R341	1-216-045-00	METAL CHIP	680	5%	1/10W	
R133	1-216-025-91	RES,CHIP	100	5%	1/10W		R342	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R161	1-216-073-00	METAL CHIP	10K	5%	1/10W								
							R343	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R162	1-216-121-91	RES,CHIP	1M	5%	1/10W		R344	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R163	1-216-101-00	METAL CHIP	150K	5%	1/10W		R345	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
					(DR5/DR6)		R346	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R163	1-216-103-00	METAL CHIP	180K	5%	1/10W		R347	1-216-045-00	METAL CHIP	680	5%	1/10W	
					(DR4/DR440/W300/W5000/XB500)								
R164	1-216-043-91	RES,CHIP	560	5%	1/10W		R348	1-216-045-00	METAL CHIP	680	5%	1/10W	
R165	1-216-073-00	METAL CHIP	10K	5%	1/10W		R351	1-216-085-00	METAL CHIP	33K	5%	1/10W	
							R352	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R166	1-216-091-00	METAL CHIP	56K	5%	1/10W		R353	1-216-025-91	RES,CHIP	100	5%	1/10W	
R167	1-216-073-00	METAL CHIP	10K	5%	1/10W		R354	1-216-025-91	RES,CHIP	100	5%	1/10W	
R168	1-216-089-91	RES,CHIP	47K	5%	1/10W								
R169	1-216-057-00	METAL CHIP	2.2K	5%	1/10W		R355	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R170	1-216-097-91	RES,CHIP	100K	5%	1/10W		R356	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
							R357	1-216-071-00	METAL CHIP	8.2K	5%	1/10W	
R171	1-216-073-00	METAL CHIP	10K	5%	1/10W		R358	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R172	1-216-295-91	SHORT	0				R359	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R173	1-216-101-00	METAL CHIP	150K	5%	1/10W								
					(DR5/DR6)		R371	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R173	1-216-107-00	METAL CHIP	270K	5%	1/10W		R372	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
					(DR4/DR440/W300/W5000/XB500)		R373	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R174	1-216-073-00	METAL CHIP	10K	5%	1/10W		R374	1-216-089-91	RES,CHIP	47K	5%	1/10W	
							R375	1-216-094-00	RES,CHIP	75K	5%	1/10W	
R175	1-216-097-00	METAL CHIP	100K	5%	1/10W								
R177	1-216-101-00	METAL CHIP	150K	5%	1/10W		R376	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
					(DR5/DR6)		R377	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R177	1-216-111-00	METAL CHIP	390K	5%	1/10W		R378	1-216-094-00	RES,CHIP	75K	5%	1/10W	
					(DR4/DR440/W300/W5000/XB500)		R401	1-216-025-91	RES,CHIP	100	5%	1/10W	
R178	1-216-057-00	METAL CHIP	2.2K	5%	1/10W		R402	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R179	1-216-121-91	RES,CHIP	1M	5%	1/10W								
							R413	1-216-295-91	SHORT	0			
							R414	1-216-295-91	SHORT	0			

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description			Remark
R451	1-216-025-91	RES,CHIP	100	5%	1/10W	R577	1-216-025-91	RES,CHIP	100	5%	1/10W
R452	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	R578	1-216-025-91	RES,CHIP	100	5%	1/10W
R501	1-216-025-91	RES,CHIP	100	5%	1/10W	R579	1-216-025-91	RES,CHIP	100	5%	1/10W
R503	1-216-025-91	RES,CHIP	100	5%	1/10W	R580	1-216-025-91	RES,CHIP	100	5%	1/10W
R505	1-216-025-91	RES,CHIP	100	5%	1/10W	R581	1-216-025-91	RES,CHIP	100	5%	1/10W
R511	1-216-109-00	METAL CHIP	330K	5%	1/10W	R582	1-216-025-91	RES,CHIP	100	5%	1/10W
R513	1-216-295-91	SHORT	0			R583	1-216-025-91	RES,CHIP	100	5%	1/10W
R517	1-216-073-00	METAL CHIP	10K	5%	1/10W	R584	1-216-025-91	RES,CHIP	100	5%	1/10W
R518	1-216-025-91	RES,CHIP	100	5%	1/10W	R585	1-216-025-91	RES,CHIP	100	5%	1/10W
R519	1-216-025-91	RES,CHIP	100	5%	1/10W	R586	1-216-025-91	RES,CHIP	100	5%	1/10W
R520	1-216-025-91	RES,CHIP	100	5%	1/10W	R587	1-216-025-91	RES,CHIP	100	5%	1/10W
					(XB500)	R588	1-216-025-91	RES,CHIP	100	5%	1/10W
R521	1-216-025-91	RES,CHIP	100	5%	1/10W	R589	1-216-025-91	RES,CHIP	100	5%	1/10W
					(XB500)	R590	1-216-025-91	RES,CHIP	100	5%	1/10W
R522	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R591	1-216-025-91	RES,CHIP	100	5%	1/10W
R526	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	R593	1-216-025-91	RES,CHIP	100	5%	1/10W
R527	1-216-025-91	RES,CHIP	100	5%	1/10W	R594	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R528	1-216-025-91	RES,CHIP	100	5%	1/10W						(DR5)
R529	1-216-025-91	RES,CHIP	100	5%	1/10W	R594	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R530	1-216-025-91	RES,CHIP	100	5%	1/10W						(DR6)
R532	1-216-025-91	RES,CHIP	100	5%	1/10W	R594	1-216-295-91	SHORT	0		
R533	1-216-025-91	RES,CHIP	100	5%	1/10W						(DR4/DR440/W300/W5000/XB500)
R535	1-216-025-91	RES,CHIP	100	5%	1/10W	R595	1-216-089-91	RES,CHIP	47K	5%	1/10W
R536	1-216-025-91	RES,CHIP	100	5%	1/10W	R596	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R537	1-216-025-91	RES,CHIP	100	5%	1/10W						(XB500)
R538	1-216-025-91	RES,CHIP	100	5%	1/10W	R596	1-216-081-00	METAL CHIP	22K	5%	1/10W
R540	1-216-061-00	METAL CHIP	3.3K	5%	1/10W						(DR4:E,TH,AR,MX/DR5:E,AR,MX/DR6:E,AR,MX/DR440)
R541	1-216-073-00	METAL CHIP	10K	5%	1/10W	R596	1-216-089-91	RES,CHIP	47K	5%	1/10W
R542	1-216-025-91	RES,CHIP	100	5%	1/10W						(DR4:EA,SP,AUS/DR5:SP/DR6:SP,MY)
R543	1-216-025-91	RES,CHIP	100	5%	1/10W	R596	1-216-295-91	SHORT	0		(W300/W5000)
R545	1-216-025-91	RES,CHIP	100	5%	1/10W	R597	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R546	1-216-025-91	RES,CHIP	100	5%	1/10W						(SP,MY,EA,TH,AUS)
R547	1-216-025-91	RES,CHIP	100	5%	1/10W	R597	1-216-089-91	RES,CHIP	47K	5%	1/10W
R548	1-216-025-91	RES,CHIP	100	5%	1/10W						(US,CND,AEP,UK,E,AR,MX)
R549	1-216-041-00	METAL CHIP	470	5%	1/10W	R600	1-216-025-91	RES,CHIP	100	5%	1/10W
R550	1-216-025-91	RES,CHIP	100	5%	1/10W	R601	1-216-049-91	RES,CHIP	1K	5%	1/10W
R551	1-216-025-91	RES,CHIP	100	5%	1/10W	R602	1-216-049-91	RES,CHIP	1K	5%	1/10W
R552	1-216-025-91	RES,CHIP	100	5%	1/10W	R603	1-216-089-91	RES,CHIP	47K	5%	1/10W
R553	1-216-025-91	RES,CHIP	100	5%	1/10W	R604	1-216-047-91	RES,CHIP	820	5%	1/10W
R554	1-216-025-91	RES,CHIP	100	5%	1/10W						(W300/W5000/XB500)
R555	1-216-025-91	RES,CHIP	100	5%	1/10W	R604	1-216-049-91	RES,CHIP	1K	5%	1/10W
R556	1-216-025-91	RES,CHIP	100	5%	1/10W						(DR4/DR5/DR6/DR440)
R557	1-216-025-91	RES,CHIP	100	5%	1/10W	R605	1-216-115-00	METAL CHIP	560K	5%	1/10W
R558	1-216-025-91	RES,CHIP	100	5%	1/10W	R606	1-216-089-91	RES,CHIP	47K	5%	1/10W
R559	1-216-025-91	RES,CHIP	100	5%	1/10W	R607	1-216-049-91	RES,CHIP	1K	5%	1/10W
R561	1-216-025-91	RES,CHIP	100	5%	1/10W	R608	1-216-097-91	RES,CHIP	100K	5%	1/10W
R563	1-216-025-91	RES,CHIP	100	5%	1/10W	R609	1-216-033-00	METAL CHIP	220	5%	1/10W
R565	1-216-025-91	RES,CHIP	100	5%	1/10W	R651	1-216-049-91	RES,CHIP	1K	5%	1/10W
R567	1-216-073-00	METAL CHIP	10K	5%	1/10W	R652	1-216-049-91	RES,CHIP	1K	5%	1/10W
R568	1-216-025-91	RES,CHIP	100	5%	1/10W	R653	1-216-089-91	RES,CHIP	47K	5%	1/10W
R569	1-216-025-91	RES,CHIP	100	5%	1/10W	R654	1-216-047-91	RES,CHIP	820	5%	1/10W
R570	1-216-089-91	RES,CHIP	47K	5%	1/10W						(W300/W5000/XB500)
R572	1-216-025-91	RES,CHIP	100	5%	1/10W	R654	1-216-049-91	RES,CHIP	1K	5%	1/10W
R573	1-216-025-91	RES,CHIP	100	5%	1/10W						(DR4/DR5/DR6/DR440)
R574	1-216-025-91	RES,CHIP	100	5%	1/10W	R655	1-216-115-00	METAL CHIP	560K	5%	1/10W
R575	1-216-025-91	RES,CHIP	100	5%	1/10W	R656	1-216-089-91	RES,CHIP	47K	5%	1/10W
R576	1-216-025-91	RES,CHIP	100	5%	1/10W	R657	1-216-049-91	RES,CHIP	1K	5%	1/10W
						R658	1-216-097-91	RES,CHIP	100K	5%	1/10W
						R659	1-216-033-00	METAL CHIP	220	5%	1/10W

Ref. No.	Part No.	Description	Remark		
R701	1-216-049-91	RES,CHIP	1K	5%	1/10W
R702	1-216-097-91	RES,CHIP	100K	5%	1/10W
R703	1-216-049-91	RES,CHIP	1K	5%	1/10W
R704	1-216-097-91	RES,CHIP	100K	5%	1/10W
R705	1-216-049-91	RES,CHIP	1K	5%	1/10W
R706	1-216-097-91	RES,CHIP	100K	5%	1/10W
R721	1-216-022-00	METAL CHIP	75	5%	1/10W
R722	1-216-015-00	METAL CHIP	39	5%	1/10W
R724	1-216-073-00	METAL CHIP	10K	5%	1/10W
R751	1-216-049-91	RES,CHIP	1K	5%	1/10W
R752	1-216-097-91	RES,CHIP	100K	5%	1/10W
R753	1-216-049-91	RES,CHIP	1K	5%	1/10W
R754	1-216-097-91	RES,CHIP	100K	5%	1/10W
R755	1-216-049-91	RES,CHIP	1K	5%	1/10W
R756	1-216-097-91	RES,CHIP	100K	5%	1/10W
R801	1-216-049-91	RES,CHIP	1K	5%	1/10W
R802	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R803	1-216-025-91	RES,CHIP	100	5%	1/10W
R804	1-216-089-91	RES,CHIP	47K	5%	1/10W
R805	1-216-089-91	RES,CHIP	47K	5%	1/10W
R806	1-216-073-00	METAL CHIP	10K	5%	1/10W
R807	1-216-073-00	METAL CHIP	10K	5%	1/10W
R808	1-216-049-91	RES,CHIP	1K	5%	1/10W
R809	1-216-097-91	RES,CHIP	100K	5%	1/10W
R810	1-216-033-00	METAL CHIP	220	5%	1/10W
R811	1-216-097-91	RES,CHIP	100K	5%	1/10W
R901	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R902	1-216-081-00	METAL CHIP	22K	5%	1/10W
R903	1-216-049-91	RES,CHIP	1K	5%	1/10W
R961	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
		(DR4/DR5/DR6/DR440/W300/W5000)			
R962	1-216-097-91	RES,CHIP	100K	5%	1/10W
		(DR4/DR5/DR6/DR440/W300/W5000)			
R963	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
		(DR4/DR5/DR6/DR440/W300/W5000)			
R998	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R999	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
		< VARIABLE RESISTOR >			
RV301	1-238-600-11	RES, ADJ, CARBON 10K			
RV351	1-238-600-11	RES, ADJ, CARBON 10K			
		< VIBRATOR >			
X501	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
X502	1-781-107-21	VIBRATOR, SERAMIC (16MHz)			

*	A-4417-503-A	PA BOARD, COMPLETE (W300)	*****		
*	A-4417-512-A	PA BOARD, COMPLETE (XB500)	*****		
*	A-4417-537-A	PA BOARD, COMPLETE (DR4/DR440)	*****		
*	A-4417-565-A	PA BOARD, COMPLETE (DR6)	*****		

Ref. No.	Part No.	Description	Remark		
*	A-4417-572-A	PA BOARD, COMPLETE (DR5)	*****		
*	A-4419-648-A	PA BOARD, COMPLETE (W5000)	*****		
		< CAPACITOR >			
C401	1-126-963-11	ELECT	4.7uF	20%	50V
C402	1-164-159-11	CERAMIC	0.1uF		50V
					(XB500)
C403	1-164-159-11	CERAMIC	0.1uF		50V
					(XB500)
C404	1-164-159-11	CERAMIC	0.1uF		50V
					(XB500)
C405	1-164-159-11	CERAMIC	0.1uF		50V
					(XB500)
C412	1-161-494-00	CERAMIC	0.022uF		25V
C413	1-161-494-00	CERAMIC	0.022uF		25V
C432	1-104-665-11	ELECT	100uF	20%	10V
C433	1-126-961-11	ELECT	2.2uF	20%	50V
C434	1-104-665-11	ELECT	100uF	20%	10V
C801	1-128-582-11	ELECT	10uF	20%	100V
C802	1-162-292-31	CERAMIC	680PF	10%	50V
C803	1-162-286-31	CERAMIC	220PF	10%	50V
C804	1-126-967-11	ELECT	47uF	20%	50V
C807	1-128-560-11	ELECT	22uF	20%	100V
C808	1-130-777-00	FILM	0.1uF	10%	100V
C809	1-130-777-00	FILM	0.1uF	10%	100V
C810	1-128-578-11	ELECT	1uF	20%	100V
C811	1-130-493-00	MYLAR	0.068uF	5%	50V
C812	1-130-493-00	MYLAR	0.068uF	5%	50V
C813	1-161-494-00	CERAMIC	0.022uF		25V
C814	1-162-294-31	CERAMIC	0.001uF	10%	50V
C815	1-128-562-11	ELECT	47uF	20%	100V
C830	1-107-714-11	ELECT	10uF	20%	50V
C831	1-126-964-11	ELECT	10uF	20%	50V
C832	1-126-967-11	ELECT	47uF	20%	50V
C841	1-127-752-11	ELECT	3300uF	20%	63V
					(W5000/XB500)
C841	1-127-811-11	ELECT	3300uF	20%	50V
					(DR4/DR5/DR6/DR440)
C842	1-127-814-11	ELECT	3300uF	20%	80V
					(DR4/DR440)
C842	1-127-815-11	ELECT	3300uF	20%	100V
					(DR5/DR6)
C844	1-130-777-00	FILM	0.1uF	10%	100V
					(DR4/DR5/DR6/DR440)
C845	1-126-943-11	ELECT	2200uF	20%	25V
C847	1-164-159-11	CERAMIC	0.1uF		50V
C848	1-164-159-11	CERAMIC	0.1uF		50V
C849	1-164-159-11	CERAMIC	0.1uF		50V
C850	1-107-721-11	ELECT	10uF	20%	100V
C851	1-128-582-11	ELECT	10uF	20%	100V
C852	1-162-292-31	CERAMIC	680PF	10%	50V
C853	1-162-286-31	CERAMIC	220PF	10%	50V
C854	1-126-967-11	ELECT	47uF	20%	50V
C857	1-128-560-11	ELECT	22uF	20%	100V
C858	1-164-159-11	CERAMIC	0.1uF		50V
C859	1-164-159-11	CERAMIC	0.1uF		50V
C861	1-130-493-00	MYLAR	0.068uF	5%	50V

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C862	1-130-493-00	MYLAR	0.068uF 5% 50V	D851	8-719-991-33	DIODE 1SS133T-77	
C863	1-126-961-11	ELECT	2.2uF 20% 50V (W300/W5000/XB500)	D852	8-719-110-06	DIODE RD18F-T7B2 (DR4/DR5/DR440)	
C891	1-127-752-11	ELECT	3300uF 20% 63V (W5000/XB500)	D853	8-719-991-33	DIODE 1SS133T-77 (W300/W5000/XB500)	
C891	1-127-811-11	ELECT	3300uF 20% 50V (DR4/DR5/DR6/DR440)	D902	8-719-210-21	DIODE 11EQS04 (W300/W5000/XB500)	
C892	1-127-814-11	ELECT	3300uF 20% 80V (DR4/DR440)	D903	8-719-210-21	DIODE 11EQS04 (W300/W5000/XB500)	
C892	1-127-815-11	ELECT	3300uF 20% 100V (DR5/DR6)	D904	8-719-210-21	DIODE 11EQS04 (W300/W5000/XB500)	
C894	1-130-777-00	FILM	0.1uF 10% 100V (DR4/DR5/DR6/DR440)	D905	8-719-210-21	DIODE 11EQS04 (W300/W5000/XB500)	
C895	1-107-721-11	ELECT	4.7uF 20% 100V	D906	8-719-911-19	DIODE 1SS119-25 (W300/W5000/XB500)	
C902	1-164-159-11	CERAMIC	0.1uF 50V (W300/W5000/XB500)	D907	8-719-200-82	DIODE 11ES2 (W300/W5000/XB500)	
C903	1-126-933-11	ELECT	100uF 20% 16V (W300/W5000/XB500)	D908	8-719-200-82	DIODE 11ES2 (W300/W5000/XB500)	
C904	1-126-964-11	ELECT	10uF 20% 50V	D909	8-719-200-82	DIODE 11ES2 (W300/W5000/XB500)	
C905	1-126-948-11	ELECT	100uF 20% 35V	D910	8-719-200-82	DIODE 11ES2 (W300/W5000/XB500)	
C906	1-126-768-11	ELECT	2200uF 20% 16V (W300/W5000/XB500)	D911	8-719-934-25	DIODE HZS33-1L	
C908	1-164-159-11	CERAMIC	0.1uF 50V (W300/W5000/XB500)	D912	8-719-109-89	DIODE RD5.6ESB2	
C909	1-164-159-11	CERAMIC	0.1uF 50V (W300/W5000/XB500)	D913	8-719-911-19	DIODE 1SS119-25 (W300/W5000/XB500)	
C962	1-126-968-11	ELECT	100uF 20% 50V (W300/W5000/XB500)			< FUSE >	
< CONNECTOR >				F841	8-719-200-82	DIODE 11ES2B (DR5)	
CN803	1-778-981-11	CONNECTOR, BOARD TO BOARD 13P		F842	8-719-200-82	DIODE 11ES2B (DR5)	
CN804	1-766-921-11	CONNECTOR, BOARD TO BOARD 10P (DR4/DR5/DR6/DR440)		F843	8-719-200-82	DIODE 11ES2B (DR5)	
* CN804	1-770-747-11	CONNECTOR, BOARD TO BOARD 12P (W300/W5000/XB500)		F844	8-719-200-82	DIODE 11ES2B (DR5)	
< DIODE >						< IC >	
D401	8-719-991-33	DIODE 1SS133T-77		IC801	8-749-015-36	IC STK411-240E (DR4/DR440/DR5)	
D402	8-719-991-33	DIODE 1SS133T-77		IC801	8-749-015-39	IC STK407-120E (W300/W5000/XB500)	
D405	8-719-991-33	DIODE 1SS133T-77		IC801	8-749-015-58	IC STK411-550E (DR6)	
D406	8-719-991-33	DIODE 1SS133T-77		IC901	8-759-450-47	IC BA05T (W300/W5000/XB500)	
D801	8-719-991-33	DIODE 1SS133T-77				< COIL >	
D802	8-719-110-06	DIODE RD18F-T7B2 (DR4/DR5/DR440)		L401	1-420-872-00	COIL, AIR-CORE (XB500)	
D803	8-719-991-33	DIODE 1SS133T-77		L402	1-420-872-00	COIL, AIR-CORE (XB500)	
D804	8-719-991-33	DIODE 1SS133T-77				< TRANSISTOR >	
D805	8-719-991-33	DIODE 1SS133T-77		Q401	8-729-040-20	TRANSISTOR RT1P137L-TP	
D823	8-719-510-68	DIODE D5SBA20F01 (DR4:E,TH,EA,SP,AR,AUS/W300/W5000)		Q402	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D831	8-719-510-68	DIODE D5SBA20F01 (DR4/DR5/DR6/DR440)		Q431	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D833	8-719-200-82	DIODE 11ES2		Q432	8-729-119-76	TRANSISTOR 2SA1175-HFE	
D834	8-719-200-82	DIODE 11ES2		Q433	8-729-620-05	TRANSISTOR 2SC2603-EF	
D835	8-719-200-82	DIODE 11ES2		Q434	8-729-620-05	TRANSISTOR 2SC2603-EF	
D836	8-719-200-82	DIODE 11ES2		Q437	8-729-620-05	TRANSISTOR 2SC2603-EF	
D841	8-719-200-82	DIODE 11ES2 (DR4/DR6/DR440/W300/W5000/XB500)		Q439	8-729-620-05	TRANSISTOR 2SC2603-EF	
D842	8-719-200-82	DIODE 11ES2 (DR4/DR6/DR440/W300/W5000/XB500)		Q801	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
D843	8-719-200-82	DIODE 11ES2 (DR4/DR6/DR440/W300/W5000/XB500)		Q803	8-729-140-82	TRANSISTOR 2SA988-PAFAEA	
D844	8-719-200-82	DIODE 11ES2 (DR4/DR6/DR440/W300/W5000/XB500)		Q804	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
				Q805	8-729-141-30	TRANSISTOR 2SC3623A-LK	
				Q831	8-729-029-86	TRANSISTOR DTC124ESA	
				Q832	8-729-620-05	TRANSISTOR 2SC2603-EF	
				Q833	8-729-029-40	TRANSISTOR DTA124ESA	
				Q834	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
				Q851	8-729-140-84	TRANSISTOR 2SC1841-PAFAEA	
				Q855	8-729-141-30	TRANSISTOR 2SC3623A-LK	
				Q901	8-729-620-05	TRANSISTOR 2SC2603-EF (W300/W5000/XB500)	
				Q902	8-729-040-19	TRANSISTOR RT1N137L-TP (W300/W5000/XB500)	
				Q903	8-729-118-01	TRANSISTOR 2SB1116-K (W300/W5000/XB500)	
				Q903	8-729-048-52	TRANSISTOR 2SA1932 (DR4/DR5/DR6/DR440)	

Ref. No.	Part No.	Description	Remark		
Q904	8-729-048-13	TRANSISTOR 2SC3616-KLM-T1 (W300/W5000/XB500)			
Q904	8-729-620-05	TRANSISTOR 2SC2603-EF (DR4/DR5/DR6/DR440)			
Q905	8-729-048-13	TRANSISTOR 2SC3616-KLM-T1 (W300/W5000/XB500)			
Q906	8-729-029-21	TRANSISTOR DTA114ESA-TP (W300/W5000/XB500)			
Q907	8-729-029-21	TRANSISTOR DTA114ESA-TP (W300/W5000/XB500)			
< RESISTOR >					
△ R401	1-215-893-11	METAL 1.5K 5% 2W (W300/W5000/XB500)			
△ R401	1-215-455-00	METAL 27K 1% 1/4W (DR4/DR5/DR6/DR440)			
R406	1-249-437-11	CARBON 47K 5% 1/4W			
R407	1-249-437-11	CARBON 47K 5% 1/4W			
R410	1-249-389-11	CARBON 4.7 5% 1/4W F (XB500)			
R411	1-249-389-11	CARBON 4.7 5% 1/4W F (XB500)			
R412	1-249-389-11	CARBON 4.7 5% 1/4W F (XB500)			
R413	1-249-389-11	CARBON 4.7 5% 1/4W F (XB500)			
R414	1-260-076-11	CARBON 10 5% 1/2W (XB500)			
R415	1-260-076-11	CARBON 10 5% 1/2W (XB500)			
R429	1-249-437-11	CARBON 47K 5% 1/4W			
R431	1-249-438-11	CARBON 56K 5% 1/4W			
R432	1-249-437-11	CARBON 47K 5% 1/4W			
R434	1-247-863-91	CARBON 22K 5% 1/4W			
R435	1-249-425-11	CARBON 4.7K 5% 1/4W F			
R437	1-249-429-11	CARBON 10K 5% 1/4W			
R439	1-249-425-11	CARBON 4.7K 5% 1/4W F			
R440	1-249-863-91	CARBON 22K 5% 1/4W			
R441	1-249-435-11	CARBON 33K 5% 1/4W			
R446	1-249-429-11	CARBON 10K 5% 1/4W			
R447	1-249-437-11	CARBON 47K 5% 1/4W			
R801	1-249-417-11	CARBON 1K 5% 1/4W F			
R802	1-249-437-11	CARBON 47K 5% 1/4W			
R803	1-249-412-11	CARBON 390 5% 1/4W F			
R804	1-249-435-11	CARBON 33K 5% 1/4W			
△ R805	1-216-436-00	METAL OXIDE 3.9K 5% 1W F (DR4/DR5/DR6/DR440)			
△ R806	1-216-436-00	METAL OXIDE 3.9K 5% 1W F (DR4/DR5/DR6/DR440)			
△ R807	1-212-881-11	FUSIBLE 100 5% 1/4W F			
△ R808	1-220-893-11	METAL 0.22 10% 5W			
R809	1-260-076-11	CARBON 10 5% 1/2W			
R810	1-249-437-11	CARBON 47K 5% 1/4W			
R811	1-249-417-11	CARBON 1K 5% 1/4W F			
R812	1-249-431-11	CARBON 15K 5% 1/4W			
R813	1-249-441-11	CARBON 100K 5% 1/4W			
R814	1-249-421-11	CARBON 2.2K 5% 1/4W F			
R815	1-247-863-91	CARBON 22K 5% 1/4W			
R816	1-249-429-11	CARBON 10K 5% 1/4W			

Ref. No.	Part No.	Description	Remark		
R817	1-249-421-11	CARBON 2.2K 5% 1/4W F			
R818	1-249-417-11	CARBON 1K 5% 1/4W F			
R819	1-249-439-11	CARBON 68K 5% 1/4W			
△ R820	1-202-972-61	FUSIBLE 1 5% 1/4W F			
R821	1-249-435-11	CARBON 33K 5% 1/4W (DR4/DR6/DR440/W300/W5000/XB500)			
R822	1-247-863-91	CARBON 22K 5% 1/4W			
R823	1-247-863-91	CARBON 22K 5% 1/4W			
R824	1-249-418-11	CARBON 1.2K 5% 1/4W F			
R824	1-249-435-11	CARBON 33K 5% 1/4W (DR5)			
△ R825	1-215-891-11	METAL OXIDE 680 5% 2W F			
R827	1-249-441-11	CARBON 100K 5% 1/4W			
R828	1-247-903-00	CARBON 1M 5% 1/4W			
R831	1-249-441-11	CARBON 100K 5% 1/4W			
R832	1-249-441-11	CARBON 100K 5% 1/4W			
R833	1-247-420-11	CARBON 1.8K 5% 1/4W			
R834	1-249-429-11	CARBON 10K 5% 1/4W			
R835	1-249-437-11	CARBON 47K 5% 1/4W			
R836	1-249-417-11	CARBON 1K 5% 1/4W F			
R837	1-249-435-11	CARBON 33K 5% 1/4W (DR4/DR6/DR440/W300/W5000/XB500)			
R838	1-249-435-11	CARBON 33K 5% 1/4W (DR4/DR6/DR440/W300/W5000/XB500)			
△ R839	1-215-877-11	METAL OXIDE 22K 5% 1W F (DR4/DR5/DR6/DR440)			
R840	1-249-402-11	CARBON 56 5% 1/4W F			
△ R842	1-217-637-00	FUSIBLE 1 5% 1/4W F			
R851	1-249-417-11	CARBON 1K 5% 1/4W F			
R852	1-249-437-11	CARBON 47K 5% 1/4W			
R853	1-249-412-11	CARBON 390 5% 1/4W F			
△ R855	1-215-891-11	METAL OXIDE 680 5% 2W F			
△ R857	1-212-881-11	FUSIBLE 100 5% 1/4W F			
△ R858	1-220-893-11	METAL 0.22 10% 5W			
R859	1-260-076-11	CARBON 10 5% 1/2W			
R860	1-249-437-11	CARBON 47K 5% 1/4W			
R861	1-249-417-11	CARBON 1K 5% 1/4W F			
R862	1-249-431-11	CARBON 15K 5% 1/4W			
R863	1-249-441-11	CARBON 100K 5% 1/4W			
R864	1-247-847-31	CARBON 4.7K 5% 1/4W (W300/W5000/XB500)			
R865	1-247-863-31	CARBON 22K 5% 1/4W (W300/W5000/XB500)			
R868	1-249-417-11	CARBON 1K 5% 1/4W F			
R880	1-249-402-11	CARBON 56 5% 1/4W F			
△ R889	1-215-877-11	METAL OXIDE 22K 5% 1W F (DR4/DR5/DR6/DR440)			
△ R902	1-215-916-00	METAL 680 5% 3W F			
R903	1-249-429-11	CARBON 10K 5% 1/4W			
R904	1-249-417-11	CARBON 1K 5% 1/4W F			
R905	1-249-429-11	CARBON 10K 5% 1/4W			
R906	1-247-807-31	CARBON 100 5% 1/4W			
R907	1-247-807-31	CARBON 100 5% 1/4W			
R908	1-247-807-31	CARBON 100 5% 1/4W (W300/W5000/XB500)			
R909	1-247-791-31	CARBON 22 5% 1/4W F (DR4/DR5/DR6/DR440)			
R911	1-249-429-11	CARBON 10K 5% 1/4W (W300/W5000/XB500)			

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark			Ref. No.	Part No.	Description	Remark		
R912	1-249-429-11	CARBON	10K	5%	1/4W	C642	1-162-286-21	CERAMIC	220PF	10%	50V
R951	1-219-122-91	FUSIBLE	0.33	5%	1/4W F	C643	1-162-286-21	CERAMIC	220PF	10%	50V
R952	1-219-122-91	FUSIBLE	0.33	5%	1/4W F	C644	1-162-286-21	CERAMIC	220PF	10%	50V
R953	1-219-119-81	FUSIBLE	0.1	5%	1/4W F	C645	1-162-286-21	CERAMIC	220PF	10%	50V
		< RELAY >				C646	1-162-286-21	CERAMIC	220PF	10%	50V
RY401	1-515-920-11	RELAY (24V)				C647	1-162-286-21	CERAMIC	220PF	10%	50V
		< THERMISTOR >				C648	1-162-286-21	CERAMIC	220PF	10%	50V
TH831	1-807-796-11	THERMISTOR				C649	1-162-286-21	CERAMIC	220PF	10%	50V
		< TERMINAL >				C650	1-162-286-21	CERAMIC	220PF	10%	50V
TM401	1-537-801-11	TERMINAL BOARD				C651	1-162-286-21	CERAMIC	220PF	10%	50V
TM402	1-537-240-11	TERMINAL BOARD (CHECKER PIN)				C652	1-162-286-21	CERAMIC	220PF	10%	50V
		(REAR SPEAKER L/R)(W300)				C653	1-162-286-21	CERAMIC	220PF	10%	50V
		< SWITCH >				C654	1-162-286-21	CERAMIC	220PF	10%	50V
VS901	1-771-291-11	SWITCH, POWER				C655	1-162-286-21	CERAMIC	220PF	10%	50V
		(DR4:E,TH,EA,SP,AR/DR5:E,SP,AR/DR6:E,SP,MY,AR)				C656	1-162-286-21	CERAMIC	220PF	10%	50V
VS901	1-771-291-31	SWITCH, POWER						< CONNECTOR >			
		(DR4:E,TH,EA,SP,AR/DR5:E,SP,AR/DR6:E,SP,MY,AR)				CN601	1-784-776-11	CONNECTOR, FFC 15P			
						CN602	1-784-737-11	CONNECTOR, FFC 15P			
								< DIODE >			
*****						D601	8-719-071-44	DIODE	SELS5223C-TP15 (STAND-BY)		
						D602	8-719-058-04	DIODE	SEL5223S-TP15 (DAILY)		
*	A-4417-499-A	PANEL FL BOARD, COMPLETE (W300/W5000)				D603	8-719-058-04	DIODE	SEL5223S-TP15 (REC)		
		*****				D604	8-719-058-04	DIODE	SEL5223S-TP15 (SYNC EQ)		
						D605	8-719-058-04	DIODE	SEL5223S-TP15 (SYNC BASS)		
*	A-4417-510-A	PANEL FL BOARD, COMPLETE (XB500)				D606	8-719-058-03	DIODE	SEL5423E-TP15 (TUNER BAND)		
		*****				D607	8-719-058-04	DIODE	SEL5223S-TP15 (ENT/NEX)		
						D608	8-719-050-84	DIODE	RB441Q-40T-77		
*	A-4417-524-A	PANEL FL BOARD, COMPLETE (DR4/DR440)						< FLUORESCENT INDICATOR >			
		*****				FL601	1-517-839-11	INDICATOR TUBE, FLUORESCENT (DR5/DR6)			
*	A-4417-570-A	PANEL FL BOARD, COMPLETE (DR5/DR6)				FL601	1-517-840-11	INDICATOR TUBE, FLUORESCENT			
		*****						(DR4/DR440/W300/W5000/XB500)			
*	4-214-750-01	HOLDER (915), FL TUBE						< IC >			
		(DR4/DR440/W300/W5000/XB500)				IC601	8-759-571-93	IC	TMP88CS76F-6000		
*	4-949-935-81	CUSHION (FL)				IC602	8-759-459-86	IC	NJL64H400A		
		< CAPACITOR >				IC603	8-759-083-77	IC	BA3830F		
						IC604	8-759-567-59	IC	NJU3716L		
C601	1-104-664-11	ELECT	47uF	20%	10V			< COIL >			
C602	1-162-306-11	CERAMIC	0.01uF	20%	16V	L601	1-410-517-11	INDUCTOR	47uH		
C604	1-126-960-11	ELECT	1uF	20%	50V	L602	1-410-517-11	INDUCTOR	47uH		
C606	1-126-960-11	ELECT	1uF	20%	50V	L603	1-410-517-11	INDUCTOR	47uH		
C608	1-104-665-11	ELECT	100uF	20%	10V	L604	1-410-509-11	INDUCTOR	10uH		
C609	1-162-294-31	CERAMIC	0.001uF	10%	50V			< LINE FILTER >			
C613	1-104-664-11	ELECT	47uF	20%	16V	LF601	1-424-228-11	FILTER, NOISE			
C616	1-162-294-31	CERAMIC	0.001uF	10%	50V			< TRANSISTOR >			
C617	1-162-306-11	CERAMIC	0.01uF	20%	16V	Q601	8-729-620-05	TRANSISTOR	2SC2603-EF		
C621	1-126-964-11	ELECT	10uF	20%	50V	Q602	8-729-118-00	TRANSISTOR	2SB1116-L		
C622	1-162-303-11	CERAMIC	0.0033uF	30%	16V	Q603	8-729-118-00	TRANSISTOR	2SB1116-L		
C623	1-126-964-11	ELECT	10uF	20%	50V	Q605	8-729-029-23	TRANSISTOR	DTA114TSA-TP		
C624	1-104-664-11	ELECT	47uF	20%	16V	Q606	8-729-029-23	TRANSISTOR	DTA114TSA-TP		
C625	1-126-963-11	ELECT	4.7uF	20%	50V						
C626	1-126-964-11	ELECT	10uF	20%	50V						
C641	1-162-286-21	CERAMIC	220PF	10%	50V						

PANEL FL

Ref. No.	Part No.	Description	Remark			
Q607	8-729-029-23	TRANSISTOR DTA114TSA-TP				
Q608	8-729-047-58	TRANSISTOR DTC114TLTL2				
Q609	8-729-047-58	TRANSISTOR DTC114TLTL2				
Q610	8-729-047-58	TRANSISTOR DTC114TLTL2				
< RESISTOR >						
R601	1-247-893-11	CARBON	390K	5%	1/4W	
R602	1-247-893-11	CARBON	390K	5%	1/4W	
R603	1-249-441-11	CARBON	100K	5%	1/4W	
R604	1-249-441-11	CARBON	100K	5%	1/4W	
R605	1-247-807-31	CARBON	100	5%	1/4W	
R608	1-249-435-11	CARBON	33K	5%	1/4W	
R609	1-247-895-91	CARBON	470K	5%	1/4W	
R610	1-249-401-11	CARBON	47	5%	1/4W	F
R611	1-249-429-11	CARBON	10K	5%	1/4W	
R612	1-247-807-31	CARBON	100	5%	1/4W	
R613	1-247-807-31	CARBON	100	5%	1/4W	
R614	1-247-807-31	CARBON	100	5%	1/4W	
R615	1-249-429-11	CARBON	10K	5%	1/4W	
R616	1-249-429-11	CARBON	10K	5%	1/4W	
R617	1-249-429-11	CARBON	10K	5%	1/4W	
R618	1-249-429-11	CARBON	10K	5%	1/4W	
R619	1-249-429-11	CARBON	10K	5%	1/4W	
R620	1-249-429-11	CARBON	10K	5%	1/4W	
R621	1-249-429-11	CARBON	10K	5%	1/4W	
R622	1-249-429-11	CARBON	10K	5%	1/4W	
R623	1-247-903-00	CARBON	1M	5%	1/4W	
R624	1-247-807-31	CARBON	100	5%	1/4W	
R625	1-247-807-31	CARBON	100	5%	1/4W	
R626	1-249-429-11	CARBON	10K	5%	1/4W	
R627	1-247-807-31	CARBON	100	5%	1/4W	
R628	1-249-429-11	CARBON	10K	5%	1/4W	
R629	1-247-807-31	CARBON	100	5%	1/4W	
R630	1-249-429-11	CARBON	10K	5%	1/4W	
R631	1-249-410-11	CARBON	270	5%	1/4W	F
R632	1-249-411-11	CARBON	330	5%	1/4W	
R633	1-249-413-11	CARBON	470	5%	1/4W	F
R634	1-249-414-11	CARBON	560	5%	1/4W	F
R635	1-249-415-11	CARBON	680	5%	1/4W	F
R636	1-249-417-11	CARBON	1K	5%	1/4W	F
R637	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R638	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R639	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R640	1-247-843-11	CARBON	3.3K	5%	1/4W	
R641	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R642	1-249-427-11	CARBON	6.8K	5%	1/4W	F
R643	1-249-429-11	CARBON	10K	5%	1/4W	
R644	1-249-431-11	CARBON	15K	5%	1/4W	
R645	1-249-434-11	CARBON	27K	5%	1/4W	
R647	1-249-410-11	CARBON	270	5%	1/4W	F
R648	1-249-411-11	CARBON	330	5%	1/4W	
R649	1-249-413-11	CARBON	470	5%	1/4W	F
R650	1-249-414-11	CARBON	560	5%	1/4W	F
R651	1-249-415-11	CARBON	680	5%	1/4W	F
R652	1-249-437-11	CARBON	47K	5%	1/4W	
R653	1-249-417-11	CARBON	1K	5%	1/4W	F
R654	1-249-437-11	CARBON	47K	5%	1/4W	
R655	1-249-417-11	CARBON	1K	5%	1/4W	F

Ref. No.	Part No.	Description	Remark			
R656	1-249-438-11	CARBON	56K	5%	1/4W	
R659	1-249-411-11	CARBON	330	5%	1/4W	
R660	1-249-411-11	CARBON	330	5%	1/4W	
R661	1-249-412-11	CARBON	390	5%	1/4W	F
R662	1-249-407-11	CARBON	150	5%	1/4W	F
R663	1-247-804-11	CARBON	75	5%	1/4W	
R664	1-249-407-11	CARBON	150	5%	1/4W	F
R665	1-249-441-11	CARBON	100K	5%	1/4W	
R666	1-249-441-11	CARBON	100K	5%	1/4W	
R667	1-249-441-11	CARBON	100K	5%	1/4W	
R668	1-249-429-11	CARBON	10K	5%	1/4W	
R669	1-249-393-11	CARBON	10	5%	1/4W	F
R670	1-249-393-11	CARBON	10	5%	1/4W	F
R671	1-249-393-11	CARBON	10	5%	1/4W	F
R672	1-249-393-11	CARBON	10	5%	1/4W	F
R673	1-249-393-11	CARBON	10	5%	1/4W	F
R674	1-249-393-11	CARBON	10	5%	1/4W	F
R675	1-249-393-11	CARBON	10	5%	1/4W	F
R676	1-249-393-11	CARBON	10	5%	1/4W	F
R677	1-249-393-11	CARBON	10	5%	1/4W	F
R678	1-249-393-11	CARBON	10	5%	1/4W	F
R679	1-249-393-11	CARBON	10	5%	1/4W	F
R680	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R681	1-249-440-11	CARBON	82K	5%	1/4W	
R682	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R683	1-249-437-11	CARBON	47K	5%	1/4W	
R684	1-249-440-11	CARBON	82K	5%	1/4W	
R685	1-249-429-11	CARBON	10K	5%	1/4W	F
< SWITCH >						
S601	1-554-303-21	SWITCH, TACTILE (POWER SAVE/DEMO (STANDBY))				
S602	1-554-303-21	SWITCH, TACTILE (ECO)				
S603	1-554-303-21	SWITCH, TACTILE (DISPLAY)				
S604	1-554-303-21	SWITCH, TACTILE (SPECTRUM ANALYZER)				
S605	1-554-303-21	SWITCH, TACTILE (PTY)(XB500)				
S606	1-554-303-21	SWITCH, TACTILE (TUNING MODE)				
S607	1-554-303-21	SWITCH, TACTILE (STERE/MONO)				
S608	1-554-303-21	SWITCH, TACTILE (ENTER/NEXT)				
S609	1-554-303-21	SWITCH, TACTILE (TUNER/BAND)				
S610	1-554-303-21	SWITCH, TACTILE (TUNING +)				
S611	1-554-303-21	SWITCH, TACTILE (TUNING -)				
S612	1-554-303-21	SWITCH, TACTILE (FUNCTION)				
S613	1-554-303-21	SWITCH, TACTILE (TUNING MEMORY)				
S614	1-554-303-21	SWITCH, TACTILE (SYNC EQ)				
S615	1-554-303-21	SWITCH, TACTILE (SYNC BASS)				
S617	1-554-303-21	SWITCH, TACTILE (DAILY)				
S618	1-554-303-21	SWITCH, TACTILE (REC)				
S619	1-554-303-21	SWITCH, TACTILE (SLEEP)				
S620	1-554-303-21	SWITCH, TACTILE (Ⓢ)/CLOCK SET)				
< VIBRATOR >						
X601	1-781-312-11	VIBRATOR, CERAMIC (12.5MHz)				

Ref. No.	Part No.	Description	Remark				Ref. No.	Part No.	Description	Remark			
*	A-4417-536-A	PANEL-VR BOARD, COMPLETE *****							< SWITCH >				
		< CAPACITOR >					S625	1-771-215-11	SWITCH, TACTILE (GEQ ⇐ ⇑ ⇓ ⇒)				
							S626	1-554-303-21	SWITCH, TACTILE (GROOVE)				
							S627	1-554-303-21	SWITCH, TACTILE (SUPER WOOFER)				
C610	1-162-306-11	CERAMIC	0.01uF	20%	16V		S628	1-554-303-21	SWITCH, TACTILE (MODE)				
C611	1-162-306-11	CERAMIC	0.01uF	20%	16V		S632	1-554-303-21	SWITCH, TACTILE (KARAOKE PON/MPX)				
C612	1-164-159-21	CERAMIC	0.1uF		50V								
		< CONNECTOR >					S633	1-554-303-21	SWITCH, TACTILE (ENTER)				
							S634	1-554-303-21	SWITCH, TACTILE (GEQ CONTROL)				
							S635	1-554-303-21	SWITCH, TACTILE (SURROUND)				
CN701	1-784-776-11	CONNECTOR, FFC 15P					S636	1-554-303-21	SWITCH, TACTILE (EFFECT)				
		< DIODE >					S637	1-554-303-21	SWITCH, TACTILE (P.FILE MEMORY)				
							S701	1-473-392-11	ENCODER, ROTARY (VOLUME)				
D611	8-719-058-04	DIODE SEL5223S-TP15 (GROOVE)					*****						
D612	8-719-058-04	DIODE SEL5223S-TP15 (SUPER WOOFER)						A-2007-800-A	LEAF SW BOARD, COMPLETE	*****			
D616	8-719-058-04	DIODE SEL5223S-TP15 (ENTER)							< CAPACITOR >				
D618	8-719-058-04	DIODE SEL5223S-TP15 (EFFECT)											
D619	8-719-060-26	DIODE SLR-325YCT31 (MENU 2)					C1001	1-107-716-11	ELECT	33uF	20%	10V	
									< CONNECTOR >				
D620	8-719-060-26	DIODE SLR-325YCT31 (MENU 1)					CN1001	1-784-459-11	CONNECTOR, FFC/FPC 17P				
D621	8-719-060-26	DIODE SLR-325YCT31 (P.FILE)							< DIODE >				
D623	8-719-060-26	DIODE SLR-325YCT31 (FILE 5)					D1001	8-719-991-33	DIODE 1SS133T-77				
D624	8-719-060-26	DIODE SLR-325YCT31 (FILE 4)					D1002	8-719-991-33	DIODE 1SS133T-77				
D625	8-719-060-26	DIODE SLR-325YCT31 (FILE 3)							< CABLE HOLDER >				
							* DM1001	1-784-581-11	HOLDER, CABLE (2.5MM PITCH) 4P				
D626	8-719-060-26	DIODE SLR-325YCT31 (FILE 2)							< IC >				
D627	8-719-060-26	DIODE SLR-325YCT31 (FILE 1)					IC1001	8-749-014-38	IC PHOTO INTERRUPTER SG-264				
		< RESISTOR >					IC1002	8-749-014-38	IC PHOTO INTERRUPTER SG-264				
									< TRANSISTOR >				
R761	1-249-410-11	CARBON	270	5%	1/4W	F	Q1001	8-729-029-56	TRANSISTOR DTA144ESA				
R762	1-249-411-11	CARBON	330	5%	1/4W				< RESISTOR >				
R763	1-249-413-11	CARBON	470	5%	1/4W	F	R907	1-249-441-11	CARBON	100K	5%	1/4W	
R764	1-249-414-11	CARBON	560	5%	1/4W	F	R1001	1-247-815-91	CARBON	220	5%	1/4W	
R765	1-249-415-11	CARBON	680	5%	1/4W	F	R1002	1-247-815-91	CARBON	220	5%	1/4W	
							R1003	1-249-414-11	CARBON	560	5%	1/4W	F
R766	1-249-417-11	CARBON	1K	5%	1/4W	F	R1004	1-247-834-11	CARBON	1.3K	5%	1/4W	
R767	1-249-418-11	CARBON	1.2K	5%	1/4W	F							
R768	1-249-420-11	CARBON	1.8K	5%	1/4W	F	R1005	1-247-818-91	CARBON	300	5%	1/4W	
R769	1-249-422-11	CARBON	2.7K	5%	1/4W	F	R1006	1-247-864-11	CARBON	24K	5%	1/4W	
R770	1-247-843-11	CARBON	3.3K	5%	1/4W		R1007	1-247-856-00	CARBON	11K	5%	1/4W	
							R1008	1-249-417-11	CARBON	1K	5%	1/4W	F
R771	1-249-425-11	CARBON	4.7K	5%	1/4W	F			< VARIABLE RESISTOR >				
R772	1-249-427-11	CARBON	6.8K	5%	1/4W	F	RV1001	1-241-785-11	RES, ADJ, CARBON 10K				
R773	1-249-429-11	CARBON	10K	5%	1/4W				(TAPE SPEED (NORMAL))				
R774	1-249-431-11	CARBON	15K	5%	1/4W		RV1002	1-241-785-11	RES, ADJ, CARBON 10K (TAPE SPEED (HIGH))				
R775	1-249-434-11	CARBON	27K	5%	1/4W				< SWITCH >				
							S1001	1-570-953-11	SWITCH, PUSH (1 KEY)				
R776	1-249-438-11	CARBON	56K	5%	1/4W								
R777	1-247-818-91	CARBON	300	5%	1/4W								
R778	1-249-407-11	CARBON	150	5%	1/4W	F							
R782	1-249-407-11	CARBON	150	5%	1/4W	F							
R784	1-249-407-11	CARBON	150	5%	1/4W	F							
R785	1-249-407-11	CARBON	150	5%	1/4W	F							
R786	1-249-407-11	CARBON	150	5%	1/4W	F							
R787	1-249-407-11	CARBON	150	5%	1/4W	F							
R789	1-249-407-11	CARBON	150	5%	1/4W	F							
R790	1-249-407-11	CARBON	150	5%	1/4W	F							
R791	1-249-407-11	CARBON	150	5%	1/4W	F							
R792	1-249-407-11	CARBON	150	5%	1/4W	F							
R793	1-249-407-11	CARBON	150	5%	1/4W	F							
R794	1-249-417-11	CARBON	1K	5%	1/4W	F							
R795	1-249-417-11	CARBON	1K	5%	1/4W	F							

LEAF SW	SUB TRANS	TABLE SENSOR	TC-A	TC-B	TRANS
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Ref. No.	Part No.	Description	Remark			
S1002	1-570-953-11	SWITCH, PUSH (1 KEY)				
S1003	1-771-333-11	SWITCH, LEAF (A PLAY)				
S1004	1-771-205-11	SWITCH, LEAF (B PLAY)				
S1005	1-771-205-11	SWITCH, LEAF (A 120/70)				

S1006	1-771-333-11	SWITCH, LEAF (REC A)				
S1008	1-771-205-11	SWITCH, LEAF (REC B)				
S1009	1-771-205-11	SWITCH, LEAF (B 120/70)				

*	1-672-432-11	SUB TRANS BOARD (W300/W5000/XB500)				

< CAPACITOR >						
△ C901	1-113-925-11	CERAMIC	0.01uF	20%	250V	
< CONNECTOR >						
* CN901	1-580-230-11	PIN CONNECTOR (PC BOARD) 2P				
(W300/W5000/XB500)						
CN902	1-564-321-00	PIN, CONNECTOR 2P (W300/W5000/XB500)				
< DIODE >						
D901	8-719-991-33	DIODE 1SS133T-77 (W300/W5000/XB500)				
< RELAY >						
△ RY901	1-755-276-11	RELAY, POWER (W300/W5000/XB500)				
△ RY901	1-755-276-21	RELAY, POWER (XB500)				
△ RY901	1-755-276-31	RELAY, POWER (XB500)				
< TRANSFORMER >						
T901	1-433-615-11	TRANSFORMER, POWER (W300/W5000)				
T901	1-433-616-11	TRANSFORMER, POWER (XB500)				

*	1-659-058-13	TABLE SENSOR BOARD				

< IC >						
IC202	8-749-924-18	IC PHOTO INTERRUPTER RPI-1391				
< RESISTOR >						
R207	1-249-416-11	CARBON	820	5%	1/4W	F

*	1-672-193-11	TC-A BOARD				

< DIODE >						
D631	8-719-058-03	DIODE SEL5423E-TP15 (▷)(A DECK)				
D632	8-719-058-03	DIODE SEL5423E-TP15 (◁)(A DECK)				
< RESISTOR >						
R701	1-249-417-11	CARBON	1K	5%	1/4W	F
R702	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R703	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R704	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R705	1-247-843-11	CARBON	3.3K	5%	1/4W	

Ref. No.	Part No.	Description	Remark			
R706	1-249-425-11	CARBON	4.7K	5%	1/4W	F
R707	1-247-804-11	CARBON	75	5%	1/4W	
R708	1-247-804-11	CARBON	75	5%	1/4W	
< SWITCH >						
S641	1-554-303-21	SWITCH, TACTILE (▷)				
S642	1-554-303-21	SWITCH, TACTILE (◁)				
S643	1-554-303-21	SWITCH, TACTILE (□)				
S644	1-554-303-21	SWITCH, TACTILE (<◁)				
S645	1-554-303-21	SWITCH, TACTILE (▷▷)				
S646	1-554-303-21	SWITCH, TACTILE (DOLBY ON)				
S647	1-554-303-21	SWITCH, TACTILE (DIRECTION)				

*	1-672-194-11	TC-B BOARD				

< DIODE >						
D635	8-719-058-03	DIODE SEL5423E-TP15 (◁)(B DECK)				
D636	8-719-058-03	DIODE SEL5423E-TP15 (▷)(B DECK)				
D637	8-719-057-97	DIODE SEL5923A-TP15 (■)				
D638	8-719-058-04	DIODE SEL5223S-TP15 (● REC)				
< RESISTOR >						
R711	1-249-410-11	CARBON	270	5%	1/4W	F
R712	1-249-411-11	CARBON	330	5%	1/4W	
R713	1-249-413-11	CARBON	470	5%	1/4W	F
R714	1-249-414-11	CARBON	560	5%	1/4W	F
R715	1-249-415-11	CARBON	680	5%	1/4W	F
R716	1-249-417-11	CARBON	1K	5%	1/4W	F
R717	1-249-418-11	CARBON	1.2K	5%	1/4W	F
R718	1-249-420-11	CARBON	1.8K	5%	1/4W	F
R719	1-249-422-11	CARBON	2.7K	5%	1/4W	F
R720	1-247-804-11	CARBON	75	5%	1/4W	
R721	1-247-804-11	CARBON	75	5%	1/4W	
R722	1-247-807-31	CARBON	100	5%	1/4W	
R723	1-249-407-11	CARBON	150	5%	1/4W	F
< SWITCH >						
S651	1-554-303-21	SWITCH, TACTILE (▷)				
S652	1-554-303-21	SWITCH, TACTILE (◁)				
S653	1-554-303-21	SWITCH, TACTILE (□)				
S654	1-554-303-21	SWITCH, TACTILE (<◁)				
S655	1-554-303-21	SWITCH, TACTILE (▷▷)				
S656	1-554-303-21	SWITCH, TACTILE (■)				
S657	1-554-303-21	SWITCH, TACTILE (● REC)				
S658	1-554-303-21	SWITCH, TACTILE (HI-SPEED DUB)				
S659	1-554-303-21	SWITCH, TACTILE (CD SYNCHRO)				

*	1-672-431-11	TRANS BOARD (DR4/DR5/DR6/DR440)				

*	1-672-430-11	TRANS BOARD (W300/W5000/XB500)				

< CAPACITOR >						
C843	1-130-777-00	FILM	0.1uF	10%	100V	

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
C893	1-130-777-00	FILM 0.1uF 10% 100V				MISCELLANEOUS	
C961	1-162-306-11	CERAMIC 0.01uF 20% 16V				*****	
C963	1-162-306-11	CERAMIC 0.01uF 20% 16V					
< CONNECTOR >							
* CN901	1-580-230-11	PIN, CONNECTOR (PC BOARD) 2P (DR4:E,TH,EA,SP,AR/DR5:E,SP,AR/DR6:E,SP,MY,AR)		1	1-769-977-11	WIRE (FLAT TYPE) (13 CORE)	
* CN952	1-564-526-11	PLUG, CONNECTOR 11P (W300/W5000/XB500)		1	1-773-009-11	WIRE (FLAT TYPE) (15 CORE)(XB500)	
* CN952	1-564-528-11	PLUG, CONNECTOR 13P (DR4/DR5/DR6/DR440)		5	1-233-545-11	TUNER (UNIT)(EA,SP,MY,AR,MX,AUS)	
< DIODE >				5	1-693-443-11	TUNER (UNIT)(AEP,UK)	
D832	8-719-510-68	DIODE D5SBA20F01		5	1-693-445-11	TUNER (UNIT)(US,CND)	
< FUSE >				5	1-693-453-11	TUNER (UNIT)(E,TH)	
△ F951	1-533-310-11	FUSE, GLASS TUBE6.3A 125V		61	1-773-002-11	WIRE (FLAT TYPE) (15 CORE) (80 mm)	
△ F951	1-532-505-31	FUSE (T5AL/250V)(DR4/DR440)		62	1-773-034-11	WIRE (FLAT TYPE) (15 CORE) (420 mm)	
△ F951	1-533-949-31	FUSE, CYLINDRICAL (TIME LUG)		156	1-790-287-11	WIRE (FLAT TYPE) (19 CORE)	
△ F961	1-532-506-31	FUSE (T6.3AL/250V) (DR4/DR5/DR6/DR440/XB500)		160	1-773-006-11	WIRE (FLAT TYPE) (15 CORE)	
△ F962	1-532-506-31	FUSE (T6.3AL/250V) (DR4/DR5/DR6/DR440/XB500)		161	1-773-056-11	WIRE (FLAT TYPE) (17 CORE)	
△ F963	1-532-506-31	FUSE (T6.3AL/250V) (DR4/DR5/DR6/DR440/XB500)		507	1-452-925-21	MAGNET ASSY	
△ F964	1-532-506-31	FUSE (T6.3AL/250V) (DR4/DR5/DR6/DR440/XB500)		△ 601	8-820-020-02	OPTICAL PICK-UP KSS-213D/Q-NP	
< FUSE HOLDER >				602	1-769-069-11	WIRE (FLAT TYPE) (16 CORE)	
FH951	1-533-233-21	HOLDER, FUSE (DR4:E,TH,EA,SP,AR,MX/DR5/DR6/DR440/W300/W5000)		△ CNP901	1-558-943-41	CORD, POWER (E,MX,TH)	
FH952	1-533-233-21	HOLDER, FUSE (DR4:E,TH,EA,SP,AR,MX/DR5/DR6/DR440/W300/W5000)		△ CNP901	1-575-042-21	CORD, POWER (CND)	
FH961	1-533-233-21	HOLDER, FUSE (DR4/DR5/DR6/DR440/XB500)		△ CNP901	1-575-651-21	CORD, POWER (AEP,UK,EA,SP,MY)	
FH962	1-533-233-21	HOLDER, FUSE (DR4/DR5/DR6/DR440/XB500)		△ CNP901	1-696-845-31	CORD, POWER (AUS)	
FH963	1-533-233-21	HOLDER, FUSE (DR4/DR5/DR6/DR440/XB500)		△ CNP901	1-783-531-31	CORD, POWER (US)	
FH964	1-533-233-21	HOLDER, FUSE (DR4/DR5/DR6/DR440/XB500)		△ CNP901	1-783-941-31	CORD, POWER (AR)	
FH965	1-533-233-21	HOLDER, FUSE (DR4/DR5/DR6/DR440/XB500)		FL601	1-517-840-11	INDICATOR TUBE, FLUORESCENT	
FH966	1-533-233-21	HOLDER, FUSE (DR4/DR5/DR6/DR440/XB500)		HP101	A-2056-681-B	DECK (A) ASSY, HEAD (230AWR2)	
FH967	1-533-233-21	HOLDER, FUSE (DR4/DR5/DR6/DR440/XB500)		HP101	A-2056-683-B	DECK (A) ASSY, HEAD (230PWR2)	
FH968	1-533-233-21	HOLDER, FUSE (DR4/DR5/DR6/DR440/XB500)		HRPE101	A-2056-682-B	DECK (B) ASSY, HEAD (230AWR2)	
< RESISTOR >				HRPE101	A-2056-684-B	DECK (B) ASSY, HEAD (230PWR2)	
R951	1-219-119-81	FUSIBLE 0.1 5% 1/4W F (W300:CND)		M1	A-2004-628-A	MOTOR ASSY, CAPSTAN	
R952	1-219-119-81	FUSIBLE 0.1 5% 1/4W F (W300:CND)		M101	X-4917-523-3	MOTOR ASSY (SPINDLE)	
R961	1-202-725-00	SOLID 3.3M 10% 1/2W (W300:CND)		M102	X-4917-504-1	MOTOR ASSY (SLED)	
R961	1-219-237-11	SOLID 3.3M 20% 1/2W (W300:US/W5000)		M201	A-4660-977-A	MOTOR ASSY (TABLE)	
< TRANSFORMER >				M901	1-698-792-11	FAN, DC (DR4/DR440/W300/W5000)	
△ T951	1-433-602-11	TRANSFORMER, POWER (W300/W5000)		M901	1-763-072-11	FAN, DC (DR5/DR6)	
△ T951	1-433-603-11	TRANSFORMER, POWER (XB500)		△ T901	1-433-615-11	TRANSFORMER, POWER (W300/W5000)	
△ T951	1-433-604-11	TRANSFORMER, POWER (DR4/DR440)		△ T901	1-433-616-11	TRANSFORMER, POWER (XB500)	
△ T951	1-433-606-11	TRANSFORMER, POWER (DR5)		△ T951	1-433-602-11	TRANSFORMER, POWER (W300/W5000)	
△ T951	1-433-611-11	TRANSFORMER, POWER (DR6)		△ T951	1-433-603-11	TRANSFORMER, POWER (XB500)	
*****				△ T951	1-433-604-11	TRANSFORMER, POWER (DR4/DR440)	
				△ T951	1-433-606-11	TRANSFORMER, POWER (DR5)	
				△ T951	1-433-611-11	TRANSFORMER, POWER (DR6)	

				ACCESSORIES & PACKING MATERIALS			

				1-475-572-41	COMMANDER, STANDARD (RM-SR5B)		
				4-988-173-01	COVER, BATTERY (FOR RM-SR5B)		
				1-501-374-11	ANTENNA, LOOP		
				1-501-659-41	ANTENNA (FM) (DR4/DR5/DR6/DR440/W300/W5000)		
				1-501-804-11	ANTENNA (FM)(XB500)		
				1-569-008-21	ADAPTOR, CONVERSION 2P (EA,SP,MY)		
				3-865-548-11	MANUAL, INSTRUCTION (ENGLISH)		
				3-865-548-21	MANUAL, INSTRUCTION (FRENCH) (DR4:EA/W300:CND)		
				3-865-548-31	MANUAL, INSTRUCTION (SPANISH) (DR4:AR,MX/DR5:AR,MX/DR6:AR,MX/DR440)		

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

HCD-DR4/DR5/DR6/DR440/W300/W5000/XB500

Ref. No.	Part No.	Description	Remark
	3-865-548-41	MANUAL, INSTRUCTION (FRENCH,SPANISH) (DR4:E,TH,SP/DR5:E,SP/DR6:E,SP,MY/XB500:AEP)	
	3-865-548-51	MANUAL, INSTRUCTION (CHINESE) (DR4:SP/DR5:SP/DR6:SP,MY)	
	3-865-548-61	MANUAL, INSTRUCTION (ARABIC)(DR4:EA)	
	3-865-548-71	MANUAL, INSTRUCTION (GERMAN)(XB500:AEP)	
	3-865-548-81	MANUAL, INSTRUCTION (DUTCH,ITALIAN,PORTUGUESE,SWEDISH)(XB500:AEP)	
	3-865-548-91	MANUAL, INSTRUCTION (POLISH, RUSSIAN) (XB500:AEP)	
	3-865-549-11	MANUAL, INSTRUCTION (CZECH)(XB500:AEP)	
	3-865-549-21	MANUAL, INSTRUCTION (HUNGARIAN) (XB500:AEP)	
	3-865-549-31	MANUAL, INSTRUCTION (TURKISH)(XB500:AEP)	

HARDWARE LIST

#1	7-685-871-01	SCREW +BVTT 3X6 (S)
#2	7-685-872-09	SCREW +BVTT 3X8 (S)
#3	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S
#4	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S
#5	7-685-553-19	SCREW +BTP 2.6X6 TYPE2 N-S
#6	7-685-104-19	SCREW +P 2X6 TYPE2 NON-SLIT
#7	7-685-650-79	SCREW +BVTP 3X16 TYPE2 IT-3
#8	7-685-881-09	SCREW +BVTT 4X8 (S)
#9	7-685-853-04	SCREW +BVTT 2X6 (S)
#10	7-685-850-04	SCREW +BVTT 2X3 (S)
#11	7-685-851-04	SCREW +BVTT 2X4 (S)
#12	7-628-254-15	SCREW +PS 2.6X6
#13	7-628-254-50	SCREW +PS 2.6X16